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ANNUAL REPORT

OF THE

SECRETARY OF STATE,

TO THE

GOVERNOR OF THE STATE OF OHIO,

INCLUDING THE

STATISTICAL REPORT TO THE GENERAL ASSEMBLY,

FOR THE YEAR 1878.

COLUMBUS:

NEVINS & MYERS, STATE PRINTERS.
1879.

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1878

REPORT OF THE SECRETARY OF STATE.

OFFICE OF THE SECRETARY OF STATE,
COLUMBUS, OHIO, *December 15, 1878.*

To His Excellency RICHARD M. BISHOP, *Governor of Ohio :*

SIR: In compliance with the requirements of the Constitution and laws of the State, I have the honor herewith to submit the annual report of this department for the year ending with the 15th of November, 1878.

CORPORATIONS.

During the year there were filed in this office two hundred and sixteen certificates of incorporation, of companies having an aggregate capital stock of \$53,314,916, and sixty-one certificates of incorporation of companies or associations not having a capital stock, to wit: Seventy-one manufacturing companies, thirty railroad companies, fourteen mining companies, twenty-eight building and loan associations, ten printing and publishing companies, eight gas companies, four fire insurance companies, two saving and loan associations, four street railroad companies, four turnpike companies, one plank-road company, one company for building steamboats, and thirty-nine companies for various purposes other than the above. Proceedings were filed for the consolidation of three railroad companies and one street railroad company. Four companies filed proceedings for change of name, four for change of time of annual meeting, one for change of location of principal office, one for sale of corporate franchise, one for dissolution, and eleven railroad companies for extension of lines and branches. General tabular and classified statements of the same are prepared, and will be embodied in the report.

CITIES AND VILLAGES.

Five villages have been incorporated during the year, for general purposes, and territory has been annexed to seven. A table, with the name and location of each, will appear in the report.

PAPER FOR THE STATE.

As required by the provisions of the act of April 10, 1873, after having given due notice by advertisement, on the third day of September last,

in the presence of the bidders therefor, I opened the several bids and awarded the contracts for furnishing the State with paper for one year from November 1st, 1878, as follows :

To the Cleveland Paper Company, of Cleveland, Ohio, two thousand reams double super royal printing paper, at 7 44-100 cents per pound ; two hundred reams double flat cap, at 11 50-100 cents per pound ; fifty reams brochure cover, at 11 50-100 cents per pound ; seventy-five reams flat cap, at 12 cents per pound ; seventy five reams folio post, at 11 49 100 cents per pound. To Messrs. Chatfield & Woods, of Cincinnati, Ohio, twenty-five reams demy, at 14 95 100 cents per pound ; and to Messrs. Miller, Green & Joyce, of Columbus, Ohio, fifty reams flat letter, at 13 39-100 cents per pound. The companies aforesaid being the lowest bidders for the classes of paper respectively awarded to them.

OHIO AND OHIO STATE REPORTS.

Of the Supreme Court Reports, three sets have been delivered during the year, as follows: One set to the Clerk of the Court of Franklin county, one set to the Attorney-General's office, and one set to the offices of the Clerk of the Supreme Court, for the use of those offices respectively.

On the 24th day of May, 1878, in obedience to the joint resolution of the General Assembly passed May 11, 1878, Ohio Laws, volume 75, page 1201, I entered into a contract, on behalf of the State, with Messrs. Robert Clarke & Co., of Cincinnati, Ohio, to print, bind, and supply the State with 350 copies of Volume 32, Ohio State Reports, and the same number of such other volumes as might be ready for publication prior to June 2, 1880.

STATUTES ON HAND.

There were on hand at the close of the year, of Swan's Revised Statutes, 8 copies ; Swan & Critchfield, Vol. 1, 38 copies, and Vol. 2, 39 copies ; Swan & Saylor's Supplement, 286 copies ; Saylor, 128 copies, 4 volumes each ; Curwen, Vol. 4, 232 copies ; and Gholson & Okey's Digest, 240 copies.

STATIONERY.

A table showing the purchase and distribution of stationery for the year, will be given in this report ; also a complete roster of the officers of the State and counties, and of the various benevolent, penal, and reformatory institutions of the State.

PRINTING FOR THE STATE.

On the 31st day of July, 1878, after giving due notice as required by law, the commissioners of public printing opened the bids for the vari-

ous classes of printing for the State, and awarded the contracts therefor as follows: To Messrs. Nevins & Myers—bills, composition per thousand ems, at 15 cents, press-work per token, 8 cents; reports, composition per thousand ems, 25 cents, press-work per token, 23 cents; laws, composition per thousand ems, 26 cents, press-work per token, 20 cents; Executive jobs, composition per thousand ems, 12 cents, press-work per token, 2 cents. To Messrs. G. J. Brand & Co.—journals, composition per thousand ems, 33½ cents, press-work per token, 27 cents. German printing, composition per thousand ems, 26 cents, press-work, 25 cents per token; translating per thousand ems, 44 50-100 cents.

The report of statistics will be as full and accurate as can well be with the means provided by law for collecting the same.

A number of eminent gentlemen have kindly furnished for this report carefully written contributions upon several topics of historical, scientific and practical interest, which will be found under their respective titles, with the names of the authors.

Very respectfully, your obedient servant,

MILTON BARNES, *Secretary of State.*

HISTORY
OF THE
MORAVIAN MISSIONS IN OHIO,
AND
MEMORIAL SKETCHES OF ITS MISSIONARIES.

HISTORY OF OUR MORAVIAN MISSIONS
AND
MEMORIAL SKETCHES OF OUR MISSIONARIES.

BY ISAAC SMUCKER.

The career or life-story of the laborious and self-sacrificing Moravian missionaries, and the establishment of Moravian mission stations by them in the wilderness, among the savage races that, during the latter half of the eighteenth century, occupied the Muskingum Valley, together with the narratives of the zealous, faithful labors bestowed upon them, and generally upon the surrounding tribes and pagan nations, may well be regarded, without drawing largely on the imagination, as one of the most interesting and romantic chapters in our early-time history. It is a chapter too, a few of whose crimsoned pages recite the saddest, bloodiest story that darkens our annals—a story that has ever attached shame and disgrace to the memory of the cruel perpetrators of the murder of unoffending Christian men, defenseless women, and innocent and helpless children! But it is a chapter also, a few of whose otherwise dark pages are made luminous by the heroic death of the murdered victims, murdered under circumstances of perfidy, cruelty, and appalling atrocity seldom paralleled, and who in their sad death well displayed the courage of innocence, and the calmness, resignation, and heroism inspired by true Christian principles!

THE PIONEER MISSIONARY.

Rev. Charles Frederick Post was the pioneer Moravian missionary to the Ohio Indians. He it was who made the preliminary movement among them which had in view their civilization and conversion from savagism to Christianity. With that high purpose he left his home in Bethlehem, Pennsylvania, in 1761, and visited the Delawares, then occupying the valley of the Upper Muskingum (now called the Tuscarawas), and then and there took the incipient steps in promotion of his object, by making their acquaintance, and by cultivating fraternal relations with them, and securing their confidence and friendship. He also built a cabin among them, which was situated within about a mile of one of their chief villages on the Tuscarawas River, named Tuscararatown, a

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short distance south of the present northern boundary of Tuscarawas county. The building he erected stood in the immediate vicinity of the mouth of Sandy Creek, near the present village of Bolivar, and only a little way north of the line which divides Tuscarawas and Stark counties, on section twenty-five, in the township of Bethlehem, Stark county. A pile of stones, which probably formed the chimney of this early-time missionary's habitation, still indicated its site as late as the year 1843, when "Howe's Historical Collections of Ohio" first appeared. Some have held the opinion that this was the first house erected within the present limits of Ohio by a white man, but that is doubtless an error. The French, English, and American traders, years before, had built many huts, cabins, and trading stations; and so also had the French Jesuits erected buildings, at a prior date, along the Auglaize River, also on the banks of the Maumee, or Miami of the Lakes, as well as at or near Fort Loramie, on the portage between the Great Miami River and the southern tributaries of the Maumee.

After completing his building, this lone missionary of the West concluded that the next step in the preliminary measures looking to the civilization of the Indians on the Tuscarawas, and bringing them into the Christian faith, was to establish a mission school among them, and teach them to read the Scriptures in their own tongue. With this view this pioneer missionary returned to his home in Pennsylvania, to secure the services of an assistant who should devote his attention to the business of teaching the Indians and giving them suitable instruction; and in this he succeeded. John Heckewelder, then a youth of nineteen years, volunteered his services as a teacher, and was accepted; and on the 8th of March, 1762, the veteran missionary and his youthful companion started on their long horseback journey of thirty-three days, which they completed April 11th, by entering on that day the cabin built on the banks of the Tuscarawas River the previous year. But little, however, was accomplished by these missionaries during the summer, except to clear a plat of ground fifty yards square around their cabin (the Indians being unwilling to allow more), and raising corn and vegetables for their subsistence. The necessary absence of the senior missionary for a number of months, he having accepted the invitation of the Governor of Pennsylvania to meet in council at Lancaster, on the 27th of August, to hold a conference with some Indian tribes; the scanty supply of food, and difficulty of procuring it; the sickness of Heckewelder; the jealousy and hostility of the Indians, and other untoward circumstances, led to the abandonment of this missionary enterprise in October, 1762, when John Heckewelder returned to Bethlehem.

As the Rev. Christian Frederick Post made the first, although *unsuccessful*, attempt to establish a Protestant mission among the Ohio Indians, and as he never afterwards identified himself, in any manner, with our subsequent history, I deem this the proper place for a brief biographical sketch of this pioneer missionary. It was quite otherwise with his assistant, John Heckewelder. He intimately connected his name with our history by his personal presence for almost half a century (though not continuously) after his first arrival at the Tuscarawas River, in 1762, remaining in Ohio until 1810, and rendering himself pre-eminently useful in various prominent official positions; so much so, indeed, that his name continues to be a "household word" among us to the present day. I shall, therefore, omit a biographical sketch of him in this connection, but devote a few of the closing pages of this paper to giving him due prominence as one of the *founders of Ohio*.

Rev. Christian Frederick Post was a native of Conitz, in Polish Prussia. He came to America in 1742, and first exercised the functions of a Moravian missionary in 1743, having acquired some knowledge of the language of the Indians. A few years later he became an adept in the language of the Mohawks. While among them, in 1745, he was arrested as a spy, or rather for supposed sympathy with the French, and was imprisoned in Albany, at first, and afterwards in New York. After enduring many weeks of confinement in prisons, he and his companion and fellow-missionary, Rev. David Zeisberger, were discharged, as not guilty, after an examination by the Governor and his Council, and were permitted to return to Bethlehem, their home. He soon after joined a mission in Connecticut, and remained there until 1749, when he returned to Europe, where, however, he made but a short stay. After his return to America he labored as a missionary at Wyoming, until 1754, when he again went to Bethlehem, the Moravian "head-quarters."

In the summer of 1758, Rev. Mr. Post was appointed by the Governor of the Colony of Pennsylvania, as bearer of a message to the Delawares, Shawanese, and Mingoes, of the upper Ohio Valley. The object of the Governor was to persuade them to withdraw from the French interest, which they were promoting, and induce them to return to their allegiance to the English. The results were so satisfactory as to secure Mr. Post's services for the second time, on a similar mission to other tribes of Indians in the upper Ohio Valley, and on the tributaries of the Ohio River. He started on this second mission, October 25, 1758, and returned in January, 1759, having made a part at least of his homeward journey with the returning army of General Forbes, after the capture of Fort Duquesne. I have before me the journals, as written by himself, of these several visits

made by Mr. Post, and they show that he possessed considerable knowledge of the Indian character, and displayed a fair degree of ability as a diplomatist; his "talks" to the Indians being given, and the answers they made. These journals are important and valuable also for the intelligence they furnish of the condition and feeling of the Indians as between the French and English, and, incidentally, their relations towards the Americans also; and for the amount of geographical information they give, as well as the facts they state, touching the location of the various tribes of Indians; the names given by them to the various Indian villages, also to the streams and points of historic interest in the country claimed by them around the "Forks of the Ohio," now Pittsburgh.

Our veteran missionary (Rev. Christian Frederick Post), after his failure on the Tuscarawas, in 1762, turned his attention to other fields, first visiting Central America, and establishing a mission among the savages of Nicaragua.

On the marital relations of the subject of this sketch I may be indulged in some remarks. He first intermarried with Rachel, a Moravian Christian woman of the Wampanoag tribe, who died in 1747. His second marriage, which occurred in 1749, was with Agnes, a Delaware, who was also a Moravian Christian. She died in 1751. His third wife was a white woman. It may be remarked that these matrimonial alliances with Indian women (although they were sincere Christians of their own faith) were rather distasteful to the ruling authorities of the Moravian Church, and rendered Mr. Post somewhat unpopular, so that, failing to have their full, hearty, and official co-operation, he became an *independent* missionary, but still a Moravian in creed, opinion, and practice. His death took place at Germantown, one of the suburban villages near Philadelphia, and which subsequently became conspicuous as the site of one of the battle-fields of the Revolution.

FIRST PROTESTANT SERMON IN OHIO—1771.

In the spring of 1771, Rev. David Zeisberger, a Moravian missionary, who had devoted many years of his life to the religious instruction of the Indians east of the Alleghenies, visited the chief Delaware town in the Tuscarawas Valley, and there, in the house of Netawatwas, the principal chief of the Delawares, delivered a sermon, at noon, on the 14th of March, 1771, which was probably the first *Protestant* sermon preached within the present limits of Ohio. The Indian capital, in which this sermon was preached, occupied the suburbs of the present village of Newcomerstown, in Oxford township, Tuscarawas county. The proposition to establish a

mission among the Delawares in the Tuscarawas Valley met with such a degree of favor as to induce an effort, at an early day, by the zealous Zeisberger, who, after a stay of a few days devoted to missionary labors, returned to Friedensstadt (City of Peace), a Moravian town on the Beaver River (now in Lawrence county, Pennsylvania), where he had, during the previous year, established a mission.

SCHÖNBRUNN—1772.

In pursuance of the purpose formed in 1771, on his first visit to the valley of the Tuscarawas, Rev. David Zeisberger, in the early spring of 1772, again visited the capital town of the Delawares, to make arrangements with their principal chief, Netawatwas for the organization of a Moravian church and mission station in said valley. His negotiations were eminently satisfactory, and the chief granted for the purposes of the mission, lands on the Tuscarawas River from the mouth of the Stillwater, extending northward for a number of miles towards the Tuscarara village, suggesting the Big Spring, two miles south of New Philadelphia, as the most eligible site for both the mission church and Moravian village. The veteran missionary then returned to Friedensstadt, and in three weeks—that is, on the 3d day of May—he, with twenty-eight Moravian Indians, arrived at the Big Spring, and at once began the work of clearing the land, erecting houses, and building a church. The mission-house, or church, was completed on the 9th of June (though not dedicated until the 19th of September), by which time a number of dwelling-houses had been built and occupied. On the 26th of August a bell was put on the church, and was doubtless the first one in Ohio.

The village was called Schönbrunn (Beautiful Spring), and was soon occupied by more than two hundred Moravian Indians, chiefly from Friedenshütten (Tents of Peace), on the Susquehanna, in Pennsylvania, exclusive of the five families that came from Friedensstadt. The accessions, during the summer, of Indians from the Susquehanna Valley, led by Rev. John Ettwein, secured from Netawatwas, the liberal chief, an additional grant of land extending a number of miles down the Tuscarawas from the mouth of Stillwater. Rev. John Ettwein returned to his field of labor, but Rev. John George Jungman remained at Schönbrunn and labored there as a missionary with Rev. David Zeisberger, as did also, sometimes, Rev. John Heckewelder and others. Schönbrunn, before the year closed, contained more than sixty houses built of "squared timber"—also a school-house—besides huts and lodges. It was situated in the present township of Goshen, Tuscarawas county.

GNADENHUTTEN—1772.

Joshua, a Christian Indian, brought a party of Mohicans, on the 18th of September, 1772, to the Tuscarawas Valley, and on the 24th laid out a town on the west side of the river, four miles *above* Schönbrunn, calling it the "Upper Town." This location, however, was not satisfactory to Netawatwas, who induced a change to a place about eight miles *below* Schönbrunn, on the east side of the Tuscarawas River, where, on the 9th of October, the town of Gnadenhütten (Tents of Grace) was laid out by Joshua and his colony of Mohicans from Friedensstadt. It was within the present township of Clay, Tuscarawas county. The first sermon was preached there by Rev. David Zeisberger, October 17, 1772. In 1773 Friedensstadt, on the Beaver, was abandoned, the population being transferred to Schönbrunn and Gnadenhütten, adding thereby considerably to their inhabitants. Rev. John Roth, the resident missionary at Friedensstadt, accompanied them, and remained at Gnadenhütten from April 24, 1773, until about the middle of August, when he removed to Schönbrunn. John Lewis Roth, who is generally believed to have been the first white child born within the limits of Ohio, had his birth at Gnadenhütten, July 4, 1773, during the brief stay there of his parents, as above mentioned. During the latter part of this year, Rev. David Zeisberger, Rev. John Heckewelder, and Rev. John Roth were missionaries at Schönbrunn, and Rev. John George Jungman and Rev. John Jacob Schmick at Gnadenhütten.

Rev. John Ettwein, who conducted the Indians from the Susquehanna to Schönbrunn, in the Tuscarawas Valley, in 1772, was born in the Schwartzwald, in Germany, in 1712. In 1754 he emigrated to America, and served the church both in Pennsylvania and North Carolina. In 1764, he became a member of the Mission Board, and was consecrated a Bishop in 1784. He stood at the head of the church in Pennsylvania until his death, which occurred at Bethlehem, in said State, January 2, 1802. It does not appear that he ever visited the West, except in 1772. He was a zealous, faithful, good man, and eminently useful during his long and eventful life.

Rev. John Roth, who conducted an Indian colony from the Susquehanna Valley in 1772, to Friedensstadt, a Moravian village on the Beaver River, and who, the next year, went to the Tuscarawas Valley, was a native of Sarmund, a village in the Mark Brandenburg, Prussia, where he was born February 3, 1726. He settled in Bethlehem, Pennsylvania, in July, 1756, and three years thereafter (1759,) he became a Moravian missionary. He entered into the married relation with Maria Agnes Pfingstag, at Bethlehem, on the 16th of August, 1770. As already stated,

he, in June, 1772, accompanied some Christian Indians from the Susquehanna Valley to the west as far as Friedensstadt, where he remained until the next year, when he removed to Guadenhütten, reaching that village April 24, 1773. In August of this year he removed to Schönbrunn, and remained there until after the breaking out of the Dunmore war, in 1774, when he returned to Bethlehem, and was never again identified with the Tuscarawas missions. Soon after his return to Pennsylvania, he was called to serve the church at Mount Joy, and subsequently was Moravian minister at Emmaus, Hebron, and York, where he died July 22, 1791, and was buried at Bath, in said State. The son, John Lewis Roth, was educated at Nazareth Hall, being a member of the class of 1785, the first organized in that institution. He married, removed to Bath, where his father was buried, and died there on the 25th of September, 1841. His mother died at Nazareth, Pennsylvania, on the 25th of February, 1805.

Rev. John Jacob Schmick remained at Guadenhütten until August, 1777, and was succeeded by Rev. William Edwards. The former returned to Litiz, a small Moravian village in Lancaster county, Pennsylvania, where, for a few months, he served Bishop Hehl as an assistant, preaching in the United States Hospital, which had been established in that village. His death took place there January 23, 1778, in the sixty-fourth year of his age. He was born at Königsberg, in Prussia, October 9, 1714. He was an alumnus of the University of Königsberg, and was for a time a Lutheran minister in Livonia, where he became acquainted with the Moravians and adopted their faith, and, in 1748, united with them. Rev. David Zeisberger brought him across the Atlantic with him from Europe, in response to the call of the Missionary Board. He served various missions in Pennsylvania and elsewhere, and was generally held in high estimation for his scholarship, and for his many admirable qualities of head and heart. He possessed the high moral virtues that characterized so generally the Western Moravian missionary.

LICHTENAU—NEW SCHÖNBRUNN—SALEM.

Such was the degree of prosperity that had attended Schönbrunn and Gnadenhütten, that their joint population aggregated, at the close of the year 1775, upwards of five hundred. The establishment of a third mission station in that valley was, therefore, taken into consideration early in the year 1776. Revs. David Zeisberger and John Heckewelder, with eight families, numbering thirty-five persons, with a view of building another Moravian town, encamped, on the 12th of April, 1776, on the site of the future village, two miles or more below the junction of the Tusca-

rawas and Walhonding Rivers (now Coshocton,) on the east bank of the Muskingum River. A mission house was soon built, which, until the erection of a chapel, served as a place of worship. The new town, called Lichtenau (Pasture of Light), was situated in the present township of Tuscarawas, in Coshocton county. It had a rapid growth for several years, having had a considerable accession, in April, 1777, from Schönbrunn, when, owing to a combination of causes, that hitherto prosperous mission station was abandoned! High hopes of Lichtenau were cherished until early in 1779, when some hostile Wyandot and Mingo warriors, having made it a rendezvous and the starting-point for a new war-path to the Ohio River; and one or two of the surrounding tribes becoming more and more unfriendly, its abandonment was soon determined upon, which was gradually accomplished. Rev. William Edwards, one of the missionaries, in April, 1779, left Lichtenau and moved up the Tuscarawas River to Gnadenhütten. During the month of December, 1779, Rev. David Zeisberger left with another colony, and passed up the Tuscarawas to a point a short distance above Schönbrunn, and commenced building a town, to which was given the name of New Schönbrunn. It was situated a mile or more below the present town of New Philadelphia, in what is now Goshen township, Tuscarawas county. And in the spring of 1780, Rev. John Heckewelder, with all the Christian Indians that remained at Lichtenau, left it and started the town of Salem, on the west bank of the Tuscarawas, about six miles below Gnadenhütten. Its site was in the present township of Salem, Tuscarawas county, about sixteen miles below the county seat of said county. The chapel here was dedicated on the twenty-second of May, 1780, and in it Rev. John Heckewelder and Sarah Ohneberg, a mission teacher, were united in marriage July 4, 1780, and which was probably one of the first weddings of white people within the present limits of Ohio, Rev. Bernard Adam Grube, a veteran missionary, then temporarily in the West, being the officiating minister. He was born in 1715, near Erfurt, Germany, and died at Bethlehem, in 1808, at the age of ninety-three years.

Rev. Gottlob Senseman, a missionary from Pennsylvania, arrived during the year 1780, and was assigned to duty at New Schönbrunn. And during the autumn of this year, Rev. Michael Jung arrived, and became the assistant missionary at Gnadenhütten, Rev. William Edwards being the principal. Rev. David Zeisberger was superintendent of all the Tuscarawas Valley stations, and itinerated constantly from church to church.

THE PERILS OF THE MORAVIANS.

Unavoidable complications growing out of the Revolutionary war, as well as out of the border warfare between the white settlers east of the

Ohio River, and the Indian tribes west of it, and, incidentally, other causes, soon produced a condition of things unfavorable to their growth and success, and tended to render the Moravian settlements in the Tuscarawas Valley of quite uncertain duration. Their annals show that they were, thus far, anything but permanent, and were equally transitory afterwards, as their subsequent history clearly shows. Certainly the history of the Moravian mission in the Tuscarawas Valley well illustrates the mutability of human affairs! They were the victims of circumstances untoward in their nature, and in a great measure uncontrollable, and before which these mission stations soon succumbed, for a time at least. Their location, in the then warlike state of affairs, was exceedingly unfavorable to them. They were situated, unhappily for them, between the British post at Detroit, and the American or Colonial military post at the "Forks of the Ohio," now Pittsburgh; and, on the other hand, these doomed villages were situated between the hostile Wyandots and other tribes on the Sandusky Plains, and in the valley of the Sandusky River, and the frontiersmen east of the Ohio River in Western Virginia and Pennsylvania. Between the British at Detroit, and the Colonists at Pittsburgh, a state of war existed, and had existed for years between the governments they respectively represented. So, also, there existed feelings of intense hostility between the savage Sandusky tribes and the white settlers east of the Ohio River. Being thus situated between four hostile parties, it will be seen at a glance how difficult it was for the missionaries and their converts to maintain a position of strict neutrality towards all these respective combatants, and avoid all suspicion of aiding one or the other of those contending factions. As friends of peace, the Moravians were disposed, not only from principle and inclination, but from motives of interest also, to maintain the position of neutrals between the aforesaid antagonistic parties; but such was their unfortunate location, and such the unfriendly circumstances by which they were surrounded, that suspicions of treachery towards one party or the other, seemed almost unavoidable, however well they maintained their attitude of neutrality. The combination of circumstances was such as to bring censure upon them, now by the British emissaries for favoring the cause of the Colonists, and then by the Colonists for favoring British interests; and again, by the frontier settlers for favoring the Sandusky savages, and then the latter would charge treachery upon them for giving "aid and comfort" to the frontiersmen! Thus the exceeding perilousness of the condition of Moravian interests in the Tuscarawas Valley can be readily seen. *The crisis came in the autumn of 1781.*

THEIR CAPTURE AND REMOVAL TO SANDUSKY.

The missionaries were charged with being spies and having held treasonable correspondence with the Americans at Pittsburgh, and perhaps at some other points. Upon this charge, the missionaries and all their Christian converts in the Tuscarawas Valley, were arrested by Captain Matthew Elliott, a British emissary, who had under his command about three hundred hostile Indians. They, making no resistance, were made captives, September 11, 1781, and, by an overpowering force, compelled to leave their much loved homes and take up the line of march for the Sandusky River, which they reached on the first day of October, after a journey of twenty days of great privations and much suffering. The missionaries that were thus forcibly removed, were Revs. Zeisberger, Senseman, and Jungman, of New Schönbrunn; Revs. Heckewelder and Jung, of Salem; and Rev. William Edwards, of Gnadenhütten. The point at which they were left to take care of themselves, their wives and children, and Indian captives, was on the banks of the Sandusky River, not far from where the Broken Sword Creek empties into it, about ten miles from Upper Sandusky. They at once proceeded to look up a location, and without delay built a village of small huts to protect themselves against the inclemency of the weather. This village, which soon took the name of "Captives' Town," was situated on the bank of the Sandusky River, probably a mile above the mouth of the Broken Sword, in the present township of Antrim, Wyandot county.

TRIAL AND ACQUITTAL OF THE MISSIONARIES.

On the 14th of October the missionaries were summoned by the British commandant at Detroit, to appear before him for trial. Accordingly, on the 25th of October, Revs. Zeisberger, Heckewelder, Senseman, and Edwards started for Detroit, to meet the charges against them. They traveled across the Black Swamp to the Maumee River, and from thence to Detroit, where they arrived after a weary journey of many days. Soon after their arrival they were ushered into the presence of Major De Peyster, the commandant, who at once entered into a colloquy with them touching the charges that had been lodged with him against them. They were treated well, and had a final hearing on the 9th of November, when they were discharged by the commandant, pronounced *not guilty*, and permitted to return to their families and friends on the Sandusky, whom they rejoined on the twenty-second of November.

CAPTURE AND IMPRISONMENT OF SCHEBOSH AND HIS PARTY.

On the day the missionaries started for Detroit, Schebosh, a native assistant missionary, organized a force at "Captive's Town," of Moravian

Indians, to go to the Tuscarawas towns, to gather some of the corn they had raised there during the preceding summer, with which they intended to return to Sandusky, and thus save their suffering friends there from perishing. They were captured, however, by a party of Americans, commanded by Col. David Williamson, and held as captives for a time at Pittsburgh, whither they were taken. The object of this expedition of Col. Williamson, in the autumn of 1781, was to remove all the Moravian Indians they could find on the Tuscarawas, to Pittsburgh, under the belief that they had not kept faith with them as against the hostile Sandusky savages; but they found themselves anticipated in the inglorious achievement of breaking up the mission, that having already been accomplished by the British.

A small church edifice was erected for worship in "Captive's Town," before winter (which proved to be one of great severity) had fully set in. It was built of small logs, the spaces between them being filled with moss, and was completed December 8. Many privations and great sufferings were endured, especially by the women and children, because of the severity of the weather and scarcity of provisions. For the purpose of relieving the sufferings of these poor, starving Indians, it was decided to make one more effort (that of Schebosh having failed) to procure some corn from the Tuscarawas valley, thousands of bushels of which, of their own raising, still remaining on the stalks there, and from which, during the preceding autumn, they were forcibly driven by the British emissary, Elliott. In pursuance of this purpose, about one hundred and fifty of them, embracing men, women, and children, left "Captive's Town" late in February, to go to their corn-fields on the Tuscarawas, to gather the corn they had raised. On their arrival they divided their forces about equally between the three villages, and proceeded at once, with energy, to gather the corn and make a speedy return to Sandusky with it for the relief of their captive friends there, who were threatened with starvation. But in this noble enterprise they were defeated, and sad, sad was the fate of about two-thirds of those who had volunteered in the good work of ministering to the imperiled and suffering christian captives in the valley of the Sandusky.

THE CAPTURE AND MASSACRE.

Allusion has been made to the unfortunate location of the Moravian mission stations on the Tuscarawas—unfortunate in relation to the American military post at Pittsburgh and the English military post at Detroit—and equally unfortunate as between the frontier settlers east of the Ohio and the hostile and vindictive savage enemies of the whites on

the Sandusky. The latter, in making their marauding and murderous incursions beyond the Ohio River, would frequently halt at the Moravian villages and partake of their hospitalities; and likewise on their return with their captives and property stolen from the white settlers, a similar halt was made, if they supposed that they were not closely pursued. It is quite probable some of this stolen property was left with the christian Indians, either carelessly or in payment of supplies obtained from them. The hospitalities above mentioned were virtually *enforced*—were bestowed of necessity—in order to ward off the suspicion and hostility of the savages. It was *compulsory* kindness, bestowed, as is alleged, for self-protection, and was extended in equal measure, and under similar restraint, and for the same purpose, upon the whites as upon the Indians. The latter, failing to secure the co operation of these christian Indians in their war movements against the whites, charged them with being in sympathy with their enemies, the frontiersmen east of the Ohio River; and the latter were no less disposed to suspect them of treachery, because they would not make common cause with them against their enemies on the Sandusky. The aforesaid enforced acts of hospitality and kindness were alleged as proof of the correctness of their suspicions; and these suspicions were further strengthened by the fact that during a season of pleasant weather, early in February, some war parties, probably from the Sandusky regions, had made raids into the white settlements and committed various thefts and some murders—among the killed being the family of William Wallace, consisting of his wife and five children; and they also carried John Carpenter into captivity at the same time. The early period in the season when those Indian visitations were made and outrages committed, induced the belief that the murderers of the Wallace family and the captors of Carpenter were the Moravian Indians or others who had received “aid and comfort” from them while on their murderous raid. In either case, the frontiersmen determined to hold the christian Indians of the Tuscarawas responsible for the atrocities perpetrated, and inflict chastisement upon them; and for this purpose they proceeded to organize an adequate force of mounted men and move with all practicable celerity to the Tuscarawas Indian villages, they having heard of the return there of a considerable number of their former occupants, for the avowed object of gathering corn.

The force, consisting of about ninety men, that charged itself with the duty of capturing and punishing those christian Indians, at work in their own corn-fields, from which they had been driven the preceding autumn, rendezvoused, early in March, 1782, at Mingo Bottom (three miles below the present city of Steubenville), under the command of Col.

David Williamson. Rev. Dr. Joseph Doddridge, in his "Indian Wars," speaking of Col. Williamson's men, says that "they were not vagabonds or miscreants, but many of them were men of the first standing in the country." On the night of the 5th of March, "this corps of volunteer militia" arrived within a mile of Gnadenhütten, the middle one of the three Indian villages (New Schönbrunn being above it and Salem below), where they met Schebosh, a half-breed Indian convert, and a man of consideration among them, and deliberately, and in cold blood, killed him. And on reaching the village they murdered another man; also a woman. By treacherously promising protection, they disarmed the Indians at Gnadenhütten, and likewise those at Salem, whom they brought to the first named place. Col. Williamson and his militia having by falsehood and deceit obtained entire control of these now defenseless christian Indians, they fettered them, and confined them in two well guarded houses. Thus shamefully and treacherously were more than ninety Moravian Indians inveigled to their destruction, many of whom being helpless women and children. And the number would have been increased by about fifty, if the "militiamen" had succeeded in capturing those at New Schönbrunn, which they attempted, but in which they were happily foiled. Suspecting treachery and a murderous intent, those at the latter place, on hearing of the capture and imprisonment of their brethren at the two other villages, made their escape barely in time to avoid capture.

Col. Williamson submitted the fate of his helpless and, as I think, innocent captives to his men for decision, the alternative being to take them as prisoners to Fort Pitt, or to butcher them! The latter method of disposing of them prevailed by a large majority, only *eighteen* men of the entire command favoring the proposition of dealing with them as prisoners! "*And they were then and there, March 8, 1782, murdered in cold blood!*" "With gun and spear, and tomahawk and scalping-knife, and bludgeon and mallet, the wholesale, brutal murder of these peaceable, innocent, defenceless people was accomplished!" "The work of death progressed in these slaughter-houses," says Howe, "until not a sigh or moan was heard to proclaim the existence of human life within!" The torch was then applied to those prison houses of woe and death, and, with ninety-four murdered Indian bodies, consumed! Two, and only two, of the whole number of captives, in some extraordinary, if not miraculous manner, escaped with their lives. The story of the deliverance of two Indian boys, notwithstanding one of them, named Thomas, was knocked down and scalped, has been often told, and need not be repeated here; suffice it to say, that they lived many years, to bear testi-

mony, in after times, to the savage cruelty of the men of Col. Williamson's command towards the Moravian Indians they so cruelly murdered.

The Moravian historian, Loskiel, details at length the story of this atrocious massacre, and characterizes it as "the most infamous act in the border wars of the west," and as "the most disgraceful event in the history of the country."

Rev. Dr. Doddridge, in his account of what he calls the "Moravian campaign," unhesitatingly pronounces this act of the "militia" as an "atrocious and unqualified murder." And it does indeed make for us the darkest, cruelest, bloodiest page in the history of the north-west "A terrible tragedy," another historian calls it. "Over this horrid deed," says another, "humanity must shed tears of commiseration as long as the record of it shall remain."

The incidents of this butchery are so revolting, that I have purposely refrained from giving the details of the infamous outrage at any considerable length. Would that the chapter which relates the events of the expedition of Col. Williamson to the Indian towns in the Tuscarawas Valley could be torn from our country's history; but, to our great mortification, that cannot be done. The record of that murder is "a ghost that will not down at our bidding."

The historian of Western Virginia and Pennsylvania (Rev. Dr. Joseph Doddridge) was personally acquainted with Col. Williamson, and in his "Indian Wars" pronounces him to have been "a brave, humane man, and not cruel." He says by way of mitigation, that as "Col. Williamson was only a militia officer, he was without power to prevent the murder of those christian Indians, against the decision of so large a majority (about four to one) of self-willed, determined, vindictive men, who had recently been greatly exasperated by the horrible murder, by Indians, of the Wallace family." His strong desire was, says Doddridge, to treat the Indians as captives, and remove them as prisoners to Pittsburgh, but was unable to enforce his wishes, and that therefore "his memory rests under *unmerited* obloquy." Whether justly or unjustly, Col. Williamson has borne much of the responsibility of the massacre of the Moravian Indians of the Tuscarawas Valley. It will, however, be an act of justice to his memory to state that he did not lose standing with his countrymen on account of his connection with the expedition or command which committed these outrageous murders, as not long thereafter they gave him undoubted evidence of their continued confidence and regard by elections to positions of honor and responsibility, civil as well as military.

It is highly probable that a majority of Colonel Williamson's militia-

men did not set out on their expedition with the purpose of murdering the Moravian Indians, but simply to take them prisoners, although the killing of Schebosh before reaching Gnadenhütten, and two others soon after entering the village, shows that some of them at least were bent on murder! Having, however, had their feelings greatly outraged by the then recent murder of the Wallace family, and dwelling on the outrage as the theme of their conversation on their march, they naturally became more and more sanguinary and vindictive in their temper as they progressed in their expedition. And it has been further proclaimed in mitigation of their brutality, if not in justification of it, that they found the dress of Mrs. Wallace, still bloody, at one of the mission towns, and thereupon rashly, illogically, insanely rushed to the conclusion that those with whom that dress was found were the murderers of the Wallace family, and that then, in the execution of the afterthought, they decided upon the commission of the brutal murder of innocent *women* and *children*, whatever might be believed as to the guilt of the *men* they massacred.

But the charge of murder against the Moravian Indians was undoubtedly an act of great injustice to them. Their guilty participation, directly or indirectly, in the murder of any white persons has never been established. Rev. Dr. Doddridge says that the charge of complicity by the Moravians with the hostile Indians in the murder of the families of the western frontiersmen, and which served as a pretext for their destruction, "was utterly false." It has always been the judgment of the public that the seventy men, or thereabouts, of Colonel Williamson's command who voted in favor of killing ninety-six Moravian Indians at Gnadenhütten, on the Tuscarawas River, March 8, 1782, were guilty of an atrocious murder! So say the general public, and so saith all reliable history!

CAPTIVE'S TOWN ABANDONED IN 1782

Owing to the hostile feelings of the tribes in the Sandusky region towards the remnant of Moravian Indians at "Captive's Town," it was deemed necessary to abandon it and seek a location elsewhere. To return to the Tuscarawas Valley was not to be thought of, as Col. Williamson's men had burnt all their habitations in the villages before leaving them. And if that had not been done, the British commandant at Detroit would not have permitted it, first, for State reasons, and secondly, because it would have been construed to mean a defiant menace, and have inevitably led to their extermination. Said commandant (Major De Peyster) generously tendered them aid and encouragement, provided they would establish a mission station on Huron River (now called

Clinton). They, after due deliberation, accepted of his proposition, and commenced a settlement on said river, about thirty miles north of Detroit, July 21, 1782, calling the village New Gnadenhütten. The missionaries and their families left Captive's Town in the spring, upon the invitation of Major De Peyster, and reached Detroit May 10, 1782, where they remained until their removal up the Huron or Clinton River, in July, as above stated. Many of the Indians at Captive's Town had found it necessary to disperse during the winter to procure food; others probably relapsed into heathenism under the pressure of surrounding circumstances; still others probably were unwilling, for various reasons, to go with their brethren to the Huron River, so that the remnant of christian Indians on the Sandusky, after the murder of ninety-four of them on the Tuscarawas, was comparatively small. The few that remained at Captive's Town after the departure of the missionaries and their families and converts for Detroit, about the last of April, were driven out and dispersed by order of Captain Pipe, a Delaware chief of the Wolf tribe, who was an unrelenting enemy of the Moravians. Henceforth for four years (from 1782 to 1786) no Moravian mission station existed within the present limits of Ohio.

Of the six Moravian missionaries who were removed to Sandusky in 1781, and who went to Detroit in May, 1782, Rev. John George Jungman was the only one who never afterwards identified himself with any missions among the Indians of Ohio. He was born April 19, 1720, at Hockenheim, in the Palatinate. In 1731, he emigrated to America, and settled near Oley, in Pennsylvania, where he became acquainted with the Moravians and united with them. After his arrival at Detroit in May, 1782, he returned to Bethlehem, Pennsylvania, where he died, after a long retirement from active service, July 17, 1808, in the eighty-ninth year of his age.

PILGERRUH MISSION, FOUNDED IN 1786.

The Pilgerruh Mission, known also as "Pilgrim's Rest," was established in the summer of 1786, on the east bank of the Cuyahoga River, in what is now Independence township, Cuyahoga county, distant from the mouth of said river (now Cleveland) ten or twelve miles. The colony was led from the vicinity of Detroit by Revs. Zeisberger, Heckewelder, and Edwards, and was composed chiefly of those who were captured by Matthew Elliott, at the Tuscarawas villages, in 1781, and who had lived principally, since that time, at New Gnadenhütten. Pilgrim's Rest was not intended to be a permanent mission, but only a stopping-place for a year or two, with the purpose of an early removal to their former localities in the Tuscarawas Valley. Soon huts were built and corn was planted, the

mission being located upon the site of an old abandoned village of the Ottawas, the land being therefore cleared, so that by the last of June they were in comfortable habitations. A chapel was also erected, and dedicated on the 10th of November.

A resolution was adopted by Congress, on the 24th of August, 1786, inviting the remnant of the expatriated or exiled Moravian Indians of the Tuscarawas to return to their former homes, guaranteeing them the protection of the government, and tendering to them, at the same time, a quantity of corn, as well as blankets, axes, and hoes, as a donation. But the opposition of certain Indian tribes to their return to their former villages was so manifest, that they decided to seek another home, and not, for the present at least, (notwithstanding the generous legislation of Congress in their behalf,) attempt to return to the Tuscarawas Valley. They stood firm in their decision to abandon "Pilgrim's Rest," however, and locate elsewhere. Accordingly on the 19th of April, 1787, the colony, under the leadership of Rev. Zeisberger, took up their line of March westward towards the Pettquotting, now called Huron River, which empties into Lake Erie at the town of Huron, in Erie county, though Black River was their destination at first, but, on arriving there, circumstances seemed not to favor it as a mission station.

NEW SALEM, FOUNDED IN 1787.

New Salem was established on the east bank of the Huron River, a few miles from its mouth, in the present township of Milan, in Erie county, in the spring of 1787, by the colony from "Pilgrim's Rest." There some old, but then unoccupied plantations, were found, and upon which they built "New Salem." The chapel was erected and occupied in June, and the village and mission soon enjoyed a good degree of prosperity. Revs. Zeisberger, Edwards, and Jung were the principal missionaries at this new station, at the beginning, but Rev. Gottlob Senseman joined it afterwards, in the year 1790. That was the year of its greatest prosperity, the congregation then numbering two hundred and twelve persons. But an impending Indian war rendered the condition of the mission precarious, a war which culminated, for this year at least, in the defeat of General Harmar, at the junction of the St. Mary's and St. Joseph's, (now Fort Wayne,) in October, 1790. The continued existence of Indian hostilities rendered it inexpedient to remain much longer at New Salem. It was, therefore, resolved to abandon it early in 1791, which was accordingly done in April of said year, the mission being removed to the Canada side of the Detroit River, and established, by invitation of their owners, on lands belonging to Elliott and McKee, both of whom had been their bitter enemies. They called this mission the Watch-Tower.

Rev. Gottlob Senseman, after the abandonment of New Salem, in 1791, was never afterwards connected with Moravian Missions among the Ohio Indians. He was, however, indentified with other missions, principally in Canada, the last of which was at Fairfield, situated on the right bank of the river Thames, in the present township of Oxford, Canada West, where he deceased January 4, 1800.

Rev. Michael Jung was a native of Engoldsheim, Province of Alsace, Germany, where he was born January 5, 1743. He came to America in 1751, and settled at Broadbay, in Maine, where he joined the Moravians. He removed to Bethlehem, Pennsylvania, in 1767, where he qualified himself for the ministry, and commenced his missionary labors in 1780, in the Tuscarawas Valley, and continued to exercise his ministerial functions at various points for the period of thirty-three years. In 1813, he retired to Litiz, a Moravian town in Pennsylvania, where he died December 13, 1826, at the advanced age of almost eighty four years. New Salem was the last mission to which he was attached within the present limits of Ohio.

RE-ESTABLISHMENT OF TUSCARAWAS MISSIONS.

For various reasons there were no Moravian Missions within the present limits of Ohio from the spring of 1791, when New Salem was abandoned, until the location and building of the village of Goshen and the rebuilding of Gnadenhütten, both in the Tuscarawas Valley, in the year 1798. The colony that entered upon this enterprise was under the direction of Revs. Zeisberger, Mortimer, Heckewelder, and Edwards, and was composed chiefly of christian Indians from the Fairfield Mission, on the river Thames, in Canada. The two last named located themselves and a portion of the colony before midsummer upon the site of Gnadenhütten, where Rev. John Heckewelder had a house built, which was finished and occupied September 9, 1798. The two first named arrived in October, 1798, and built the village of Goshen upon the old Schönbrunn tract, on the west bank of the Tuscarawas River, seven miles above Gnadenhütten, in the present township of Goshen, Tuscarawas county, about two miles below New Philadelphia.

Rev. John Heckewelder was no longer a missionary proper, but made Gnadenhütten his headquarters as "Agent of the Society for Propagating the Gospel." This was a Moravian organization incorporated by "Act of the Pennsylvania Legislature," for the purpose implied in its title. Congress had invited the Moravians to reestablish their mission in the Tuscarawas Valley, and had donated to them twelve thousand acres of land to aid in the work of Indian civilization and evangelization. Four thousand acres were surveyed so as to include the old Schönbrunn village site,

four thousand to include Gnadenhütten, and the remaining four thousand to-embrace Salem. These several tracts were conveyed to the aforesaid society, in trust, for the purpose of propagating the gospel among the heathen on the Tuscarawas, or rather as the act of incorporation expresses it, "for civilizing the Indians and promoting Christianity among them." Said society, of which Bishop Ettwein was the president, appointed Rev. John Heckewelder its agent, in 1788, to execute the trust in accordance with the terms of the grant, which remained in a state of abeyance until 1798, when, for the performance of his duties as agent, he made his residence at Gnadenhütten, as above stated. The foregoing tracts of land were surveyed, pursuant to an act of Congress bearing date June 1, 1796, although several "Acts of Congress" had been previously passed, pledging the government to grant donations of land to the Moravians in the Tuscarawas Valley. These several "Acts" bear date May 20, 1785; July 27, 1787; and September 3, 1788. These lands were under the superintendence of Rev. John Heckewelder, who, as agent, leased and managed them in the interest of the Tuscarawas Mission, embracing the two stations of Goshen and Gnadenhütten, from 1798 until 1810.

These two Moravian villages met with various successes and reverses. Soon the whites settled around them; some as lessees upon their lands, whose influence generally was pernicious upon the weak, half-disciplined Moravian Indians. They introduced ardent spirits among them, although the Territorial Governor and Judges had passed a law, in answer to petitions from Revs. Zeisberger, Heckewelder, and Mortimer, granting them the power of prohibiting its sale and use. Other vicious habits of the whites were gradually adopted, in spite of the efforts and restraining influence of the missionaries. Some of the converts, yielding to the malignant influences to which they were subjected, fell into evil ways, and some even lapsed into heathenism, and became castaways. The missionaries grew old, and lost in a measure their influence with their proselytes, being unable to give them the requisite personal attention. Gradually the number of Indians in these villages diminished by deaths, removals westward, and by the encroachments and demoralizing influence of the white settlers. At length there were few or no Indians, outside of these villages, to proselyte, by reason of their removal westward. Meantime, the age, debility, and ultimately the death of the most influential and successful missionaries was felt as a serious calamity, and greatly retarded their prosperity. Thus matters gradually progressed from bad to worse, evidence of the decadence and ultimate extinction of these Moravian Christian Missions becoming more and more manifest every year, until the final removal from the valley, in 1824, of the Moravian Indians, the last little remnant of them then joining the Fairfield Mission in Canada.

DEATH OF PROMINENT MISSIONARIES.

Mention has been made of the death of some influential missionaries, as one of the causes of the declension and abandonment of the Tuscarawas mission stations. Rev. William Edwards's death occurred at Goshen, October 18, 1801; and that of the veteran Zeisberger, at the same place, November 17, 1808. The former was a native of Brinkworth, Wiltshire, England, where he was born, April 24, 1724. He joined the Moravians in 1749, and came to America, where he closed his useful life, after long and efficient missionary services among the Indians, at the age of more than seventy-seven years. Rev. David Zeisberger, of whom a more extended memorial sketch will be given, died at the age of more than eighty-seven years.

RE-ESTABLISHMENT OF NEW SALEM MISSION, IN 1804.

In the autumn of 1803, Bishop Loskiel, the eminent Moravian historian, made an official visit to the Tuscarawas Mission, and held a conference with the missionaries, at Goshen, from October 10th to the 21st, at which it was decided to re-establish the New Salem Mission, on the Huron River, which had been abandoned in 1791. In pursuance of this purpose, Rev. Mr. Oppelt and Rev. John Ben Haven removed a fragment of christian Indians from Fairfield, in Canada, to the Huron River, in the spring of 1804, and located them near or on the site of New Salem, within Milan township, Erie county. According to some authorities, Rev. Christian Frederick Dencke superintended this mission. But small success attended the enterprise, however, and it had a brief career, the little remnant of converts soon removing to some point on the Sandusky River, from which they not long after finally scattered.

Rev. George Henry Loskiel, author of a "History of the Missions of the Moravians among the American Indians," was born November 7, 1770, at Angermünde, in Curland, and came to the United States in 1802, having been, during that year, consecrated a Bishop. He became a Moravian in 1759, was appointed superintendent of the mission in Livonia, in 1782, and occupied other positions of responsibility. His history of the Moravian missions in America was published in London, in 1794. His death took place at Bethlehem, Pennsylvania, February 23, 1814.

OTHER TUSCARAWAS MISSIONARIES.

Rev. Benjamin Mortimer remained a missionary at the Tuscarawas Mission, from 1798, until after the death of the venerable, patriarchal Zeisberger, in the year 1808, and subsequently became the pastor of a Moravian church in New York city, where he died, November 10, 1834. He was a native of England, and was a minister of character and talents.

Rev. Lewis Huebner was a missionary on the Tuscarawas in the year 1800, and for a number of years thereafter, probably until 1805. He was a native American, born at Nazareth, Northampton county, Pennsylvania, August 8, 1761, and was educated in his native town.

Rev. John Joachim Hagen became one of the missionaries at Goshen, in 1804.

And Rev. Abraham Luckenbach ministered to the Moravian Indians on the Tuscarawas, until the final abandonment of the mission and the dispersion of the converts in 1824. He was born May 5, 1777, in Lehigh county, Pennsylvania, and was educated at Nazareth, where he was a teacher in 1797. He became a missionary among the Indians in the year 1800, and served as such, at various missions, for forty-three years, when he retired to Bethlehem, Pennsylvania, where he died, March 8, 1854, having attained to the age of almost seventy-seven years.

REV. DAVID ZEISBERGER—REV. JOHN HECKEWELDER.

Before giving the details of the final termination of the Moravian mission stations in the Tuscarawas Valley, I may be permitted to give more extended biographical or memorial sketches of two of the most distinguished of the missionaries (Revs. Zeisberger and Heckewelder) that were connected with them. So long, so intimately, so conspicuously were they identified with them, that biographical sketches of them amount substantially to a history of those mission stations. "More abundant in labors" were they than all others; from the infancy of those missions until they reached the period of their decadence, were they with and of them; and so zealous and faithful were they, so devoted to their high calling as to be, pre-eminently, *the* missionaries to the Indians of the "Upper Ohio Valley." The last named, Rev. John Heckewelder, came to the Tuscarawas Valley in 1761, and did not finally leave it until 1810, covering a period, with some long intervals of absence, of forty-nine years; and the former, Rev. David Zeisberger, first came in 1772, and died there in 1808, a period of thirty-six years, including some intervals of absence also. So eminent had they become, by reason of their early-time arrival and their long continued services; and such, indeed, was their intimate identification with our pioneer history, in fact were "parts and parcels of it," to a large extent, that, in the opinion of many, they share, by no means inconsiderably, with others in the honor of being *the founders of our State*.

They were both scholarly men, familiar with several of the modern languages, and spoke a variety of Indian dialects fluently, and were also voluminous writers. Their acknowledged ability and talents, and their

undoubted and well merited claims as "men of letters," gave them a place in the fore-front, and secured them more than an ordinary degree of influence, not only as missionaries, but also as authors and civilians.

REV. DAVID ZEISBERGER.

Rev. David Zeisberger was born in a small village named Zauchtenthal, Moravia (now on the railroad from Cracow to Vienna), on Good Friday, April 11, 1721. His parents were believers in and followers of the distinguished Bohemian reformer, John Huss. They removed to Hernhut, the chief seat of the Moravians in Europe, in 1726, and came to America in 1736, and settled in Georgia. They, however, left their son David at Hernhut, to finish his education. He was an apt scholar, "learning Latin with the facility that he afterwards displayed in acquiring a knowledge of the Indian languages." Soon after he was fifteen years of age, he was taken to Holland by Count Zinzendorf, where he soon learned the Dutch language, spoken by the Hollanders. When he was seventeen he embarked at London for the New World, and soon joined his parents.

David spent several years in Georgia and South Carolina, and in 1740 went to Pennsylvania. In 1741 the village of Bethlehem, Pennsylvania, was commenced, and he early identified himself with it, which soon became, and has ever since remained, "the chief seat of the Moravian Church in America." There his father died in 1744, and his mother in 1746.

David soon developed a character for courage, talents, energy, resolution, and self-abnegation that marked him as one adapted to the missionary service among the aborigines of this country. In 1744-45 he devoted himself to the study of the Indian languages, first at Bethlehem, then in the Mohawk Valley, where he perfected himself in the Mohawk tongue. Here he came under the suspicion of being a spy, and suffered imprisonment both in Albany and New York, but, being found innocent, was discharged. Not long afterwards he was selected as the associate of Bishop Spangenberg, to make negotiations with the Iroquois Confederacy, in regard to the transfer of the Shekomeko Mission to the Wyoming. He impressed the Onondagas so favorably, that they adopted him into the Turtle Tribe of that nation, and gave him an Indian name. He made extensive explorations of the Susquehanna and its branches, acting as an interpreter frequently, and serving as assistant missionary at Shamokin.

Rev. David Zeisberger was ordained to the ministry at Bethlehem, February 16, 1749, and at once proceeded to minister to the Shamokin Mission, which was situated near the present town of Sunbury, Penn-

sylvania. In 1750 he made a voyage to Europe in the interest of American missions, returning in the following June. He made frequent visits to the Onondagas, to Wyoming, to New York, to New England, and various other places, always to promote the welfare of existing missions, or to establish new ones. He also attended the treaty held with the Indians, at Philadelphia, in 1756; at Easton, in July, 1757; and again in October, 1758. In 1759 he journeyed as far south as North Carolina, and in 1760 he was appointed superintendent of the Brethren's House, at Litiz, where he remained more than a year. In August, 1761, he was interpreter at another general congress held with the Indian tribes at Easton.

Rev. David Zeisberger thus continued to make himself useful in the various capacities of interpreter, missionary, treaty negotiator, instructor, and superintendent, until 1772, when we find him established at Schönbrunn, in the Tuscarawas Valley, from which time the details of his career have already been given in this paper. He visited Pennsylvania in 1781, and entered into the married relation with Susan Lecron, of Litiz, a Moravian village in Lancaster county, June 4, 1781, the venerable missionary, Rev. Bernard Adam Grube, performing the marriage ceremony, he who had rendered a similar service for Rev. John Heckewelder the previous year.

I have made mention of Rev. David Zeisberger as an author, and name the following as a partial list of his works:

1. "Essay of a Delaware Indian and English Spelling Book, for the use of the Schools of the Christian Indians on the Muskingum River." Published in Philadelphia, 1776. A second edition appeared in 1806.

2. "A collection of Hymns for the use of the Christian Indians of the Moravian Missions in North America." Published in Philadelphia, in 1803. This was a volume of 358 pages. A second edition was issued, in an abridged form, in 1847, under the editorship of Rev. Abraham Luckenbach, of Bethlehem, where the second edition was published.

3. "Sermons to Children." This was a translation from the German into the Delaware, and was issued in Philadelphia in 1803.

4. "Something of bodily care for Children." This, also, is a translation from the German of Bishop Spangenberg, into the Delaware, and has been bound into one volume with the "Sermons to Children," the two making a book of 115 pages.

5. "The History of our Lord and Savior Jesus Christ." This also is a translation from the German of Rev. Samuel Lieberkühn, into the Delaware Indian language, and makes a volume of two hundred and twenty-two pages. It was printed in New York, in 1821. It is supplemented with an "Address of the late Rev. David Zeisberger to the Christian Indians," bearing date Goshen, May 23, 1806.

6. "A Collection of Delaware Conjugations," published at Leipsic, in 1821.

Of the writings of Rev. David Zeisberger, many remain in manuscript.

Of those deposited in the library of the American Philosophical Society, at Philadelphia, are the following:

1. "Lexicon of the German and Onondaga Languages,"—a very extensive production of seven or eight volumes. There is an abridgement of it, also in manuscript.
2. "A Complete Grammar of the Onondaga Language."
3. "A Grammar of the Language of the Lenni-Lenapi, or Delaware Indians."

The following is a list of his manuscripts, deposited in the library of Harvard University:

1. "A Dictionary in German and Delaware."
2. "Delaware Glossary."
3. "Delaware Vocabulary."
4. "Phrases and Vocabularies in Delaware."
5. "Delaware Grammar."
6. "Harmony of the Gospels in Delaware."
7. "Hymns for the Christian Indians, in the Delaware Language."
8. "Litany and Liturgies in Delaware."
9. "Hymn-Book in the Delaware Language."
10. "Sermons in Delaware."
11. "Seventeen Sermons to Children."
12. "Church Litany in Delaware."
13. "Short Biblical Narratives in Delaware."
14. "Vocabulary in Maqua and Delaware"

Some of the foregoing are duplicates. The above manuscripts were handsomely bound, after reaching the library of Harvard University, and occupy a conspicuous place there, and will be carefully preserved for posterity.

Rev. David Zeisberger died at Goshen, in the Tuscarawas Valley, November 17, 1808, having attained the ripe age of eighty-seven years and seven months. He left no issue, and the name has no living representative as a missionary, or even as a Moravian Christian. Mrs. Zeisberger remained at Goshen until August 11, 1809, when she removed to Bethlehem, Pennsylvania, where she died September 8, 1824, aged eighty years, six months, and twenty-one days.

A marble slab in the Goshen cemetery bears the following epitaph:

DAVID ZEISBERGER,

Who was born 11 April, 1721, in Moravia, and departed this
life 17 Nov., 1808, aged 87 years, 7 m. and 6 days.

This faithful servant of the Lord labored among the American
Indians as a Missionary during the last sixty
years of his life.

REV. JOHN HECKEWELDER.

The chapter of our annals which acquaints us with the incidents connected with the efforts of the Moravian missionaries to civilize and christianize our Indians, has been read with pleasure by all those who are interested in the facts, events, and philosophy of our history. To many the narratives of those evangelizing labors are of surpassing interest, and possess all the fascination of romance. And they have intensified charms for those whose christian impulses lead them into hearty sympathy with the laborious, self-sacrificing, devoted men who had religiously dedicated themselves to the toilsome and most unpromising task of lifting our untutored aboriginal inhabitants out of the degradation and savagery of their heathen state and comparatively hopeless condition, and by long-continued, faithful labors, raising them up and placing them upon the more elevated platform of civilization, and to the purer, higher, holier plane of christianity. And, perchance, others may be brought to participate with those classes of readers, in the enjoyment of the charms and fascinations of the story of the brave-hearted, noble-minded, and conscientious Moravian missionaries of Ohio, when the details of their arduous labors are presented for their contemplation. Their's is a sacredly classic history, abounding in most precious memories, and has always been, to many minds, redolent of ever-to-be-cherished associations.

Lessons deducible from the life-story of those self-sacrificing missionaries may not be altogether without interest, or unimportant and valueless to the men of the present generation.

Rev. John Heckewelder (or as it was originally written, John Gottlieb Ernestus Heckewelder) was born at Bedford, in England, March 12, 1743, his father having fled thither from Moravia, a province of Austria, in order to avoid persecution, and where he might enjoy religious freedom. John was sent to the parochial or sectarian schools, first at Buttermere and afterwards at Fulneck, where the chief object was the inculcation of moral and religious principles and thorough indoctrination into the truths of christianity as understood and taught by the Moravian church, which has, in an eminent degree, always held secular learning subordinate to religious knowledge. With that denomination bible teachings and the study of the sacred classics have, in a special sense, ever been esteemed of paramount importance. To create in the pupil's mind an overpowering interest in matters pertaining to the life to come, was the all-in-all in the Moravian system of education, the chief object and purpose of Moravian schools. To make christians (in the highest sense) of every student—to establish a thoroughly religious congregation in each one of their literary institutions—to infuse into each individual pupil

the missionary spirit, and dedicate him to mission labors in heathen lands, was the beginning, the middle, and the end of their purpose—their main object—the principal aim at their seats of learning.

Such being the ideas always kept prominently before the pupils in Moravian educational institutions, it is not surprising that he who is the subject of this sketch should have become, in early life, deeply imbued with the genius of Christianity—that he should have entered into the spirit of Christ's gospel, and during his school years have yielded readily to those favorable influences and instructions—and entered enthusiastically, zealously, during his young manhood, into the mission field, and remained therein a faithful laborer for half a century, even to old age. And to the end of his life he cherished grateful recollections of the impressions made upon his mind, and of the religious instruction imparted to him while at these schools by his affectionate, devoted, christian teachers.

In 1754, when eleven years of age, John Heckewelder, in company with his parents and about forty other Moravian colonists, sailed for America in the ship *Irene*, which arrived at the port of New York April 2d, when the immigrants disembarked and started for Bethlehem, the Moravian village on the Lehigh River, in Pennsylvania, all arriving there April 20, 1754. Just before the *Irene* sailed, Count Zinzendorf, the then head of the Moravian church, went on board and gave his parting blessing to those who had embarked for the new world. In a paternal manner he implored the young lad, John Heckewelder, to make it his principal aim to prepare himself for preaching the gospel among the heathen; and then placing his hands upon his head, the pious and devout christian count invoked a special blessing upon him.

John attended school at Bethlehem for two years, making good progress in his studies, and then went to Christian Spring, a small Moravian settlement nine miles north of Bethlehem, where he was employed somewhat at "field labor and other manual occupations." He, however, also, meanwhile enjoyed opportunities which were not neglected, for improving himself during his leisure hours, having the benefit of the instruction of two Moravian teachers, Messrs. Zeigler and Fries, both reputed to possess good scholarship. His parents, while he was at this place, were called to serve a mission station on one of the Spanish West India Islands, where they soon died, and he, in 1758, returned to Bethlehem, and engaged himself as an apprentice to learn the art of making cedar-wood ware—to be a cooper, in short. Here four years more of his life were spent, learning a trade and pursuing his studies diligently, when he was chosen by the missionary, Charles Frederick Post, as an assistant in

the mission work in the Tuscarawas Valley, in 1761, as has been already related.

After his return to Bethlehem he assisted in establishing the new mission of Friendenshütten, and for nine years made himself extensively useful there and at other mission stations, and as an instructor in schools. In the spring of 1771 he accompanied Rev. David Zeisberger to the mission station on Beaver River, in western Pennsylvania (now in Lawrence county), called Friedensstadt, where he remained a year, and then accompanied Zeisberger to the Tuscarawas Valley, as heretofore stated. The chief incidents of his career, so far as they were connected with our mission stations from 1772 to 1798, when he entered actively upon his duties as the "agent of the society of the United Brethren for propagating the gospel among the heathen," have been presented. Between those years he was almost constantly engaged in the performance of mission work at various points, and in rendering services, as a civilian, by holding councils, forming treaties, acting as an assistant ambassador, and sometimes as interpreter.

The expedition of General Harmar, in 1790, and that of General St. Clair, in 1791, having failed to subjugate the unfriendly Indian tribes in the West, and the western settlements still being liable to attacks from marauding parties, it became a matter of the first importance with the federal government to secure peace by negotiation, if possible. With that object in view the Rev. John Heckewelder, who was thought to be a discreet man, and enjoying a high degree of public confidence, was appointed by General Knox, then Secretary of War, as an associate ambassador with General Rufus Putnam, of Marietta, with authority to form treaties of peace with various Indian tribes in the West. Instructions were issued to them on the twenty-second of May, 1792. By arrangement they met at Pittsburgh near the last of June, and reached Fort Washington on the second of July, on their way to Post Vincennes, on the Wabash, where they arrived on the twelfth of September. Here, on the twenty-seventh of said month, a treaty of peace was concluded and signed by Putnam and Heckewelder, and by thirty-one chiefs of the tribes from the upper and lower Wabash, Eel River, Cahokia, Kaskaskia, St. Joseph's River, and from Lake Michigan. After a liberal distribution of presents the commissioners started, on the fifth of October, with sixteen chiefs for Philadelphia, where they arrived early in February, Heckewelder having been absent nearly nine months.

As the results of these labors seemed encouraging, and promising success, a *second* embassy was resolved upon. The ambassadors chosen this time were Gen. Benjamin Lincoln, Col. Timothy Pickering, and Governor

Beverly Randolph. Mr. Heckewelder's acquaintance with the language and character of the Indians, and his high personal reputation among them, it was thought might be of essential service to the embassy in their negotiations with the Indians; he was therefore attached to it as an assistant ambassador. They left Philadelphia April 27, 1793, for the Miami of the Lakes (now Maumee), where they were to meet the Indian chiefs of the north-west in council, to agree upon terms of peace, if possible. To this end their fruitless labors were protracted until about the middle of August, when the ambassadors returned to Philadelphia, Mr. Heckewelder reaching his home at Bethlehem on the 25th of September, after an absence of five months.

In 1797 Mr. Heckewelder twice visited the Tuscarawas Valley, extending his journey to Marietta. In 1798 he traveled as far to the north-west as the river Thames, in "Upper Canada," in the interest of the Moravian mission station of Fairfield. About midsummer of this year we find him again in the Tuscarawas Valley rebuilding Gnadenhütten, as already stated.

Rev. John Heckewelder was elected an Associate Judge of Tuscarawas county upon its organization in 1808, and served as such until 1810, when he resigned his position of "superintendent of the missions west of the Ohio River," and also the judgeship, and returned to Bethlehem, Pennsylvania, to close his days in quiet retirement, after having served the missionary cause with ability and fidelity for almost half a century.

Rev. John Heckewelder lived more than twelve years after his direct and active connection with western missions was dissolved, in 1810, his death occurring January 31, 1823, having attained to the ripe age of almost eighty years. But those twelve years of comparative retirement, although they embraced the period of his old age and infirmities, were not by any means years of idleness and uselessness. His biographer, Rev. Edward Rondthaler, says that "he still continued to serve missions and the mission cause in an efficient way, by giving to the public needed information pertaining to them, and imparting much useful information relative to the language, manners, and customs of the Indians." He wrote extensively during his retirement, some of the productions of his pen being intended for the public generally. Among his published works are his "History, Manners, and Customs of the Indian Nations who once inhabited Pennsylvania and the Neighboring States," and his "Narrative of the Mission of the United Brethren among the Delaware and Mohegan Indians." The former of these works was written in 1819, at the repeated request of the President of the American Philosophical Society, and was published under the auspices of the historical and literary committee of said society, a society of which he was an honored

member. The last named work was prepared by him in 1821, when he had reached the age of more than seventy-seven years. In this paper he expressed the opinion that the "Crawford expedition to the Sandusky, in 1782, was organized for the purpose of destroying the remnant of the Moravian Indians on said river." The author of "Crawford's Campaign against Sandusky" (C. W. Butterfield), I think, clearly refutes that charge against Col. Crawford, by testimony that conclusively shows the object of the expedition to have been "*the destruction of the Wyandot Indian town and settlement at Sandusky.*"

The life of Rev. John Heckewelder was one of great activity, industry, and usefulness. It was a life of vicissitudes, of perils, and of wild, romantic adventure. How it abounded in hardships, privations, and self-sacrificing devotion to the interests of the barbarians of the western wilderness! How earnestly, persistently, faithfully, zealously, he labored to propagate that Gospel which was the chief inspiration of the exalted heroism that characterized his eventful life! Unselfishly he exposed himself to danger; disinterestedly he toiled to bring wild and barbarous tribes into the enjoyment of the blessings of civilization and of christianity. It would indeed be difficult to over-estimate the importance or value of the labors of Rev. John Heckewelder in the various characters of philanthropist, philosopher, pioneer, teacher, ambassador, author, and christian missionary.

Rev. John Heckewelder was a gentleman of courteous and easy manners, of frankness, affability, veracity; without affectation or dissimulation; meek, cheerful, unassuming; humble, unpretending, unobtrusive; retiring, rather taciturn, albeit, when drawn out, communicative and a good conversationalist. He was in extensive correspondence with many "men of letters," by whom he was held in great esteem. Throughout his long life he was the red man's constant and faithful friend, having gone forth a pilgrim, while yet in his young manhood, in the spirit of enthusiastic heroism, unappalled by danger, unwearied by fatigue and privation, and undismayed by prospective toils and self-denials, to put forth his best efforts to ameliorate their condition and bring them under the benign influences of a noble, elevating, purifying, Christian civilization.

RETROCESSION OF THE MORAVIAN LAND GRANTS.

For reasons already stated, the retrocession of the three several tracts of Moravian lands in the Tuscarawas Valley, and the removal westward of the remnant of Moravian Indians who still occupied them, was decided upon in 1823. To consummate that purpose, General Lewis Cass, at that time Governor of Michigan Territory, was appointed Commissioner to represent the General Government, and Rev. Lewis David

de Schweinitz was chosen to act as the commissioner on behalf of "The Society for the Propagation of the Gospel among the Heathen." They met at Gnadenhütten, and there agreed upon the terms of retrocession, August 4, 1823, by which said society was divested of its trust of those lands, provided the christian Indians assented thereto. That assent was obtained at a meeting held with Governor Cass, November 8, 1823. According to the terms of the treaty, twenty-four thousand acres of land (and a small annuity) were granted to the Indians, or for their benefit, situated in some one of the territories of the United States, in consideration of their relinquishment of their title to the foregoing tracts in the Tuscarawas Valley, which, as heretofore described, contained twelve thousand acres. The deed of retrocession was executed April 1, 1824, and *that act brought to a close, finally, Moravian missions among the Indians in Ohio.*

NOTE.

For many of the facts given in the foregoing paper, I acknowledge myself indebted to "Howe's Historical Collections of Ohio;" to "Land Laws of Ohio;" to the "Biography of Rev. John Heckewelder;" to "Scenes in the Wilderness;" to "Western Annals;" to "The Life and Times of Rev. David Zeisberger;" to "Olden Times;" to "Indian Wars," by Rev. Dr. Joseph Doddridge; to "Kilbourn's Ohio Gazetteer;" to "C. H. Mitchener's History of the Muskingum Valley;" to "Hunt's History of Coshocton County;" to "Williams's American Pioneer;" and, perhaps, to some other publications.

P. S.—It is stated on page 59 of last year's "Annual Report of the Secretary of State," that it was generally conceded that Leicester G. Converse was the first white child born within the limits of our State, after the permanent settlement was made at the mouth of the Muskingum, in 1783. From some correspondence of recent date, had with Mr. Edwin Corner, of McConnelsville, and Mr. A. T. Nye, of Marietta, there is reason to believe that that statement was erroneous. They give the names, as well as the dates and place (Marietta), of the first four births, as follows:

Arthur St. Clair Kelley was born December 30, 1788.

James Varnum Cushing was born January 27, 1789.

Leicester G. Converse was born February 7, 1789.

Joseph Barker was born February 28, 1789.

From the above statement, which is probably correct, it will be seen that L. G. Converse was born about six weeks after the birth of A. St. Clair Kelley, and ten days after J. V. Cushing, and that only two months intervened between the birth of the first (Kelley) and the last (Barker). Converse was, therefore, the *third*, and *not* the *first*, white child born in the "*Territory North-west of the River Ohio.*"

O H I O
TERRITORIAL AND STATE GOVERNORS,
FROM 1788 TO 1880,
AND
SENATORS AND REPRESENTATIVES IN CONGRESS
FROM 1789 TO 1881.

LIST OF TERRITORIAL AND STATE GOVERNORS,

*From the organisation of the first Civil Government in the Northwest Territory (1788 to 1802)
of which the State of Ohio was a part, until the year 1880.*

Name.	County.	Term commenced.	Term ended.
(a) Arthur St. Clair .....	.....	July 13, 1788	1802
*Charles Willing Byrd	Hamilton	1802	March 3, 1803
(b) Edward Tiffin	Ross	March 3, 1803	March 4, 1807
(c) † Thomas Kirker	Adams	March 4, 1807	Dec. 12, 1808
Samuel Huntington	Trumbull	Dec. 12, 1808	Dec. 8, 1810
(d) Return Jonathan Meigs	Washington	Dec. 8, 1810	March 25, 1814
† Othniel Looker	Hamilton	April 14, 1814	Dec. 8, 1814
Thomas Worthington	Ross	Dec. 8, 1814	Dec. 14, 1818
(e) Ethan Allen Brown	Hamilton	Dec. 14, 1818	Jan. 4, 1822
† Allen Trimble	Highland	Jan. 7, 1822	Dec. 28, 1822
Jeremiah Morrow	Warren	Dec. 28, 1822	Dec. 19, 1826
Allen Trimble	Highland	Dec. 19, 1826	Dec. 18, 1830
Duncan McArthur	Ross	Dec. 18, 1830	Dec. 7, 1832
Robert Lucas	Pike	Dec. 7, 1832	Dec. 13, 1836
Joseph Vance	Champaign	Dec. 13, 1836	Dec. 13, 1838
Wilson Shannon	Belmont	Dec. 13, 1838	Dec. 16, 1840
Thomas Corwin	Warren	Dec. 16, 1840	Dec. 14, 1842
(f) Wilson Shannon	Belmont	Dec. 14, 1842	April 13, 1844
† Thomas W. Bartley	Richland	April 13, 1844	Dec. 3, 1844
Mordecai Bartley	Richland	Dec. 3, 1844	Dec. 12, 1846
William Bebb	Butler	Dec. 12, 1846	Jan. 22, 1849
(g) Seabury Ford	Geauga	Jan. 22, 1849	Dec. 12, 1850
(h) Reuben Wood	Cuyahoga	Dec. 12, 1850	July 15, 1853
(j) † William Medill	Fairfield	July 15, 1853	Jan. 14, 1856
Salmon P. Chase	Hamilton	Jan. 14, 1856	Jan. 9, 1860
William Dennison	Franklin	Jan. 9, 1860	Jan. 13, 1862
David Tod	Mahoning	Jan. 13, 1862	Jan. 12, 1864
(k) John Brough	Cuyahoga	Jan. 12, 1864	Aug. 29, 1865
§ Charles Anderson	Montgomery	Aug. 30, 1865	Jan. 9, 1866
Jacob D. Cox	Trumbull	Jan. 9, 1866	Jan. 13, 1868
Rutherford B. Hayes	Hamilton	Jan. 13, 1868	Jan. 8, 1872
Edward F. Noyes	Hamilton	Jan. 8, 1872	Jan. 12, 1874
William Allen	Ross	Jan. 12, 1874	Jan. 14, 1876
(l) Rutherford B. Hayes	Sandusky	Jan. 14, 1876	March 2, 1877
(m) Thomas L. Young	Hamilton	March 2, 1877	Jan. 14, 1878
Richard M. Bishop	Hamilton	Jan. 14, 1878	Jan. 14, 1880

(a) Arthur St. Clair, of Pennsylvania, was Governor of the Northwest Territory, of which Ohio was a part, from July 13th, 1788, when the first civil government was established in the Territory, until about the close of the year 1802, when he was removed by the President.

* Secretary of the Territory, and was acting Governor of the Territory after the removal of Governor St. Clair.

(b) Resigned March 3, 1807, to accept the office of United States Senator.

(c) Return Jonathan Meigs was elected Governor on the second Tuesday of October, 1807, over Nathaniel Massie, who contested the election of Meigs, on the ground that "he had not been a resident of this State for four years next preceding the election, as required by the Constitution," and the General Assembly, in joint convention, declared that he was not eligible. The office was not given to Massie, nor does it appear, from the records, that he claimed it, but Thomas Kirker, acting Governor, continued to discharge the duties of the office until December 12, 1808, when Samuel Huntington was inaugurated, he having been elected on the second Tuesday of October in that year.

(d) Resigned March 25, 1814, to accept the office of Postmaster-General of the United States.

(e) Resigned January 4, 1822, to accept the office of United States Senator.

(f) Resigned April 13, 1844, to accept the office of Minister to Mexico.

(g) The result of the election in 1848 was not finally determined in joint convention of the two houses of the General Assembly until January 19, 1849, and the inauguration did not take place until the 22d of that month.

(h) Resigned July 15, 1853 to accept the office of Consul to Valparaiso.

(j) Elected in October, 1853, for the regular term, to commence on the second Monday of January, 1854.

(k) Died August 29, 1865.

† Acting Governor.

‡ Acting Governor, vice Wilson Shannon, resigned.

¶ Acting Governor, vice Reuben Wood, resigned.

§ Acting Governor, vice John Brough, deceased.

(l) Resigned March 2, 1877, to accept the office of President of the United States.

(m) Vice Rutherford B. Hayes, resigned.

SENATORS AND REPRESENTATIVES.

Elected to Congress from Ohio, from the Organisation of the Territorial Government to the year 1881.

VITH CONGRESS—FROM 1799 TO 1801.

Delegates.	Counties.
William H. Harrison (a)	Hamilton.
William McMillan (b)	Hamilton.

VIIth CONGRESS—FROM 1801 TO 1803.

Delegate.	Counties.
Paul Fearing	Washington.

VIIIth CONGRESS—FROM 1803 TO 1805.

Senators.	Counties.
Thomas Worthington	Ross.
John Smith	Hamilton.
Representative.	
Jeremiah Morrow	Warren.

IXth CONGRESS—FROM 1805 TO 1807.

Senators.	Counties.
Thomas Worthington	Ross.
John Smith	Hamilton.
Representative.	
Jeremiah Morrow	Warren.

(a) Resigned to accept the office of Governor of the Territory of Indiana.
(b) Vice Harrison, resigned.

XTH CONGRESS—FROM 1807 TO 1809.

Senators.	Counties.
John Smith (c).....	Hamilton.
Edward Tiffin.....	Ross.
Return J. Meigs (d)	Washington.
Representative.	
Jeremiah Morrow	Warren.

XITH CONGRESS—FROM 1809 TO 1811.

Senators.	Counties.
Return J. Meigs (e)	Washington.
Thomas Worthington (f)	Ross.
Edward Tiffin (g)	Ross.
Alex. Campbell (h).....	Brown.
Stanley Griswold (k)	Cuyahoga.
Representative.	
Jeremiah Morrow	Warren.

XIITH CONGRESS—FROM 1811 TO 1813.

Senators.	Counties.
Alex. Campbell	Brown.
Thomas Worthington	Ross.
Representative.	
Jeremiah Morrow	Warren.

XIIITH CONGRESS—FROM 1813 TO 1815.

Senators.	Counties.
Thomas Worthington*	Ross.
Jeremiah Morrow	Warren.
Joseph Kerr †	Ross.

(c) Resigned.

(d) Vice Smith, resigned.

(e) Resigned December 8, 1810, to accept the office of Governor of Ohio.

(f) Vice Meigs, resigned.

(g) Resigned in 1809.

(h) Vice Tiffin, resigned. Campbell elected December 12, 1809.

(k) Appointed by Governor to fill vacancy.

* Resigned in 1814, to accept the office of Governor of Ohio.

† Vice Werthington, resigned.

XIIITH CONGRESS—FROM 1813 TO 1815—Continued.

Dist.	Representatives.	Counties.
1	John McLean	Warren.
2	John Alexander	Greene.
3	Duncan McArthur ‡	Ross.
	William Creighton, Jr. §	Ross.

4	James Caldwell	Belmont.
5	James Kilbourn	Franklin.
6	John S. Edwards (a)	Trumbull.
	Rezin Beall (b)	Wayne.
	David Clendenen (c)	Trumbull. (d)

XIVTH CONGRESS—FROM 1815 TO 1817.

Senators.		Counties.
Jeremiah Morrow		Warren.
Benjamin Ruggles		Belmont.

Dist.	Representatives.	Counties.
1	John McLean**	Warren.
	William H. Harrison ††	Hamilton.
2	John Alexander	Greene.
3	William Creighton, Jr.	Ross.
4	James Caldwell	Belmont.
5	James Kilbourn	Franklin.
6	David Clendenen	Trumbull. (d)

XVTH CONGRESS—FROM 1817 TO 1819.

Senators.		Counties.
Jeremiah Morrow		Warren.
Benjamin Ruggles		Belmont.

‡ Resigned April 5, 1813.
§ Vice McArthur, resigned; also Creighton resigned December 14, 1814.
|| There is no record of any election having been ordered or held to fill this vacancy.
(a) Resigned April, 1813.
(b) Vice Edwards, resigned; also Beall resigned August 18, 1814.
(c) Vice Beall, resigned.
(d) Now in the present county of Mahoning.
** Resigned in 1816, to accept the office of Judge of the Supreme Court of Ohio.
†† Vice McLean, resigned.

XVth CONGRESS—FROM 1817 TO 1819—Continued.

Dist.	Representatives.	Counties.
1	William H. Harrison	Hamilton.
2	John W. Campbell	Adams.
3	Levi Barber	Washington.
4	Samuel Herrick	Muskingum.
5	Philemon Beecher	Fairfield.
6	Peter Hitchcock	Geauga.

XVIth CONGRESS—FROM 1819 TO 1821.

Senators.		Counties.
Benjamin Ruggles		Belmont.
William A. Trimble		Highland.

Dist.	Representatives.	Counties.
1	Thomas R. Ross	Warren.
2	John W. Campbell	Adams.
3	Henry Brush	Ross.
4	Samuel Herrick	Muskingum.
5	Philemon Beecher	Fairfield.
6	John Sloan	Wayne.

XVIIth CONGRESS—FROM 1821 TO 1823.

Senators.		Counties.
Benjamin Ruggles		Belmont.
William A. Trimble*		Highland.
Ethan A. Brown†		Hamilton.

Dist.	Representatives.	Counties.
1	Thomas R. Ross	Warren.
2	John W. Campbell	Adams.
3	Levi Barber	Washington.
4 {	John C. Wright ‡	Jefferson.
	David Chambers §	Muskingum.
5	Joseph Vance	Champaign.
6	John Sloan	Wayne.

* Died in 1822 from the effects of a wound received in battle at Fort Erie, in the war of 1812. † Vice Trimble, deceased. ‡ Resigned. § Vice Wright.

XVIIIth CONGRESS—FROM 1823 TO 1825.

Senators.		Counties.
Benjamin Ruggles.....		Belmont.
Ethan A. Brown		Hamilton.

Dist.	Representatives.	Counties.
1	James W. Gazlay	Hamilton.
2	Thomas R. Ross.....	Warren.
3	William McLean.....	Miami.
4	Joseph Vance.....	Champaign.
5	John W. Campbell.....	Adams.
6	Duncan McArthur	Ross.
7	Samuel F. Vinton	Gallia.
8	William Wilson.....	Licking.
9	Philemon Beecher.....	Fairfield.
10	John Patterson	Belmont.
11	John C. Wright.....	Jefferson.
12	John Sloan	Wayne.
13	Elisha Whittlesey	Trumbull.
14	Mordecai Bartley	Richland.

XIXth CONGRESS—FROM 1825 TO 1827.

Senators.		Counties.
Benjamin Ruggles.....		Belmont.
William H. Harrison		Hamilton.

Dist.	Representatives.	Counties.
1	James Findlay.....	Hamilton.
2	John Woods	Butler.
3	William McLean	Miami.
4	Joseph Vance.....	Champaign.
5	John W. Campbell	Adams.
6	John Thompson.....	Columbiana.
7	Samuel F. Vinton	Gallia.
8	William Wilson.....	Licking.
9	Philemon Beecher.....	Fairfield.
10 {	David Jennings†.....	Belmont.
10 {	Thomas Shannon†.....	Belmont.
11	John C. Wright.....	Jefferson.
12	John Sloan	Wayne.
13	Elisha Whittlesey	Trumbull. *
14	Mordecai Bartley	Richland.

* In present county of Mahoning. † Resigned in 1826. ‡ Vice Jennings, resigned.

XXTH CONGRESS—FROM 1827 TO 1829.

Senators.		Counties.
Benjamin Ruggles.....		Belmont.
William H. Harrison *.....		Hamilton.
Jacob Burnet †.....		Hamilton.

Dist.	Representatives.	Counties.
1	James Findlay.....	Hamilton.
2	John Woods.....	Butler.
3	William McLean.....	Miami. ¶
4	Joseph Vance.....	Champaign.
5	William Russell.....	Adams.
6 {	William Creighton, Jr. †.....	Pickaway.
	Francis Muhlenburg §.....	Pickaway.
7	Samuel F. Vinton.....	Gallia.
8	William Wilson.....	Licking.
9	Philemon Beecher.....	Fairfield.
10	John Davenport.....	Belmont.
11	John C. Wright.....	Jefferson.
12	John Sloan.....	Wayne.
13	Elisha Whittlesey.....	Trumbull.
14	Mordecai Bartley.....	Richland.

XXIst CONGRESS—FROM 1829 TO 1831.

Senators.		Counties.
Benjamin Ruggles.....		Belmont.
Jacob Burnet.....		Hamilton.

Dist.	Representatives.	Counties.
1	James Findlay.....	Hamilton.
2	James Shields.....	Butler.
3	Joseph H. Crane.....	Montgomery.
4	Joseph Vance.....	Champaign.
5	William Russell.....	Scioto.
6	William Creighton, Jr.....	Pickaway.
7	Samuel F. Vinton.....	Gallia.
8	William Stanbery.....	Licking.
9	William W. Irwin.....	Fairfield.
10	William Kennon.....	Belmont.
11 {	John M. Goodenow (a).....	Jefferson.
	Humphrey H. Leavitt (b).....	Jefferson.
12	John Thompson.....	Columbiana.
13	Elisha Whittlesey.....	Trumbull. ¶
14	Mordecai Bartley.....	Richland.

* Resigned in 1828 to accept appointment of Minister to Colombia. † Vice Harrison.

‡ Resigned in 1828, after second election, to accept the appointment of Judge of the United States District Court, but was not confirmed by the United States Senate. § Vice Creighton, resigned ¶ Removed to Warren in 1827 or 1828. ¶ Now present county of Mahoning. (a) Resigned April 14, 1830. (b) Vice Goodenow, resigned; Leavitt elected November, 1830.

XXIId CONGRESS—FROM 1831 TO 1833.

Senators.		Counties.
Benjamin Ruggles.....		Belmont.
Thomas Ewing.....		Fairfield.

Dist.	Representatives.	Counties.
1	James Findlay.....	Hamilton.
2	Thomas Corwin.....	Warren.
3	Joseph H. Crane.....	Montgomery.
4	Joseph Vance.....	Champaign.
5	William Russell.....	Scioto.
6	William Creighton, Jr.....	Pickaway.
7	Samuel F. Vinton.....	Gallia.
8	William Stanbery ..	Licking.
9	William W. Irwin.....	Fairfield.
10	William Kennon.....	Belmont.
11	Humphrey H. Leavitt.....	Jefferson.
12	John Thompson.....	Columbiana.
13	Elisha Whittlesey.....	Trumbull.*
14	Eleutheros Cook.....	Huron.†

XXIIId CONGRESS—FROM 1833 TO 1835.

Senators.		Counties.
Thomas Ewing.....		Fairfield.
Thomas Morris.....		Clermont.

Dist.	Representatives.	Counties.
1	Robert T. Lytle‡.....	Hamilton.
2	Taylor Webster.....	Butler.
3	Joseph H. Crane.....	Montgomery.
4	Thomas Corwin.....	Warren.
5	Thomas L. Hamer.....	Brown.
6	Samuel F. Vinton.....	Gallia.
7	William Allen.....	Ross.
8	Jeremiah McLene.....	Franklin.
9	John Chaney.....	Fairfield.
10	Joseph Vance.....	Champaign.
11	James M. Bell.....	Guernsey.
12	Robert Mitchell.....	Muskingum.
13	David Spangler.....	Coshocton.
14	William Patterson.....	Richland.
15	Jonathan Sloane.....	Portage.
16	Elisha Whittlesey.....	Trumbull.*
17	John Thompson.....	Columbiana.
18	Benjamin Jones.....	Wayne.
19 {	Humphrey H. Leavitt.§.....	Jefferson.
	Daniel Kilgore||.....	Harrison.

* Now in present county of Mahoning. † Now present county of Erie. ‡ Resigned October 16, 1834, and re-elected November 8, 1834. § Resigned July 10, 1834, to accept the office of Judge of the United States District Court for Ohio. || Vice Leavitt, resigned; Kilgore elected October 18, 1834.

XXIVTH CONGRESS—FROM 1835 TO 1837.

Senators.		Counties.
Thomas Ewing.....		Fairfield.
Thomas Morris.....		Clermont.

Dist.	Representatives.	Counties.
1	Bellamy Storer.....	Hamilton.
2	Taylor Webster.....	Butler.
3	Joseph H. Crane.....	Montgomery.
4	Thomas Corwin.....	Warren.
5	Thomas L. Hamer.....	Brown.
6	Samuel F. Vinton.....	Gallia.
7	William Key Bond.....	Ross.
8	Jeremiah McLene.....	Franklin.
9	John Chaney.....	Fairfield.
10	Samson Mason.....	Clarke.
11	William Kennon.....	Belmont.
12	Elias Howell.....	Licking.
13	David Spangler.....	Coshocton.
14	William Patterson.....	Richland.
15	Jonathan Sloane.....	Portage.
16	Elisha Whittlesey.....	Trumbull.*
17	John Thompson.....	Columbiana.
18	Benjamin Jones.....	Wayne.
19	Daniel Kilgore.....	Harrison.

XXVTH CONGRESS—FROM 1837 TO 1839.

Senators.		Counties.
Thomas Morris.....		Clermont.
William Allen.....		Ross.

Dist.	Representatives.	Counties.
1	Alexander Duncan.....	Hamilton.
2	Taylor Webster.....	Butler.
3	Patrick G. Goode.....	Shelby.
4	Thomas Corwin.....	Warren.
5	Thomas L. Hamer.....	Brown.
6	Calvary Morris.....	Athens.
7	William Key Bond.....	Ross.
8	Joseph Ridgway.....	Franklin.
9	John Chaney.....	Fairfield.
10	Samson Mason.....	Clarke.
11	James Alexander, Jr.....	Belmont.
12	Alexander Harper.....	Muskingum.
13	Daniel P. Leadbetter.....	Holmes.
14	William H. Hunter.....	Huron.
15	John W. Allen.....	Cuyahoga.

* Now in present county of Mahoning.

XXVTH CONGRESS—REPRESENTATIVES—Continued.

Dist.	Representatives.	Counties.
16 {	Elisha Whittlesey*	Trumbull. (a)
	Joshua R. Giddings†	Ashtabula.
17 {	Andrew W. Loomis‡	Columbiana.
	Charles D. Coffin §	Columbiana.
18	Matthias Shepler	Stark.
19 {	Daniel Kilgore ¶	Harrison.
	Henry Swearengen ¶	Jefferson.

XXVITH CONGRESS—FROM 1839 TO 1841.

Senators.		Counties.
Benjamin Tappan		Jefferson.
William Allen		Ross.

Dist.	Representatives.	Counties.
1	Alexander Duncan	Hamilton.
2	John B. Weller	Butler.
3	Patrick G. Goode	Shelby.
4 {	Thomas Corwin (b)	Warren.
	Jeremiah Morrow (c)	Warren.
5	William Doane	Clermont.
6	Calvary Morris	Athens.
7	William Key Bond	Ross.
8	Joseph Ridgway	Franklin.
9	William Medill	Fairfield.
10	Samson Mason	Clarke.
11	Isaac Parrish	Guernsey.
12	Jonathan Taylor	Licking.
13	Daniel P. Leadbetter	Holmes.
14	George Sweney	Crawford.
15	John W. Allen	Cuyahoga.
16	Joshua R. Giddings	Ashtabula.
17	John Hastings	Columbiana.
18	David A. Starkweather	Stark.
19	Henry Swearengen	Jefferson.

XXVIIITH CONGRESS—FROM 1841 TO 1843.

Senators.		Counties.
William Allen		Ross.
Benjamin Tappan		Jefferson.

* Resigned in 1838. † Vice Whittlesey, resigned. ‡ Resigned in 1837. § Vice Loomis, resigned. ¶ Resigned in 1838. ¶ Vice Kilgore, resigned. (a) Now present county of Mahoning. (b) Resigned to accept the office of Governor of Ohio. (c) Vice Corwin, resigned.

XXVIITH CONGRESS—Continued.

Dist.	Representatives.	Counties.
1	Nathaniel G. Pendleton.....	Hamilton.
2	John B. Weller.....	Butler.
3	Patrick G. Goode.....	Shelby.
4	Jeremiah Morrow.....	Warren.
5	William Doane.....	Clermont.
6	Calvary Morrison.....	Athens.
7	William Russell.....	Scioto.
8	Joseph Ridgway.....	Franklin.
9	William Medill.....	Fairfield.
10	Samson Mason.....	Clarke.
11	Benjamin S. Cowen.....	Belmont.
12	Joshua Mathiot.....	Licking.
13	James Matthews.....	Coshocton.
14	George Sweeney.....	Crawford.
15	Sherlock J. Andrews.....	Cuyahoga.
16	Joshua R. Giddings.....	Ashtabula.
17	John Hastings.....	Columbiana.
18	Ezra Dean.....	Wayne.
19	Samuel Stokeley.....	Jefferson.

XXVIIITH CONGRESS—FROM 1843 TO 1845.

Senators.	Counties.
William Allen.....	Ross.
Benjamin Tappan.....	Jefferson.

Dist.	Representatives.	Counties.
1	Alexander Duncan.....	Hamilton.
2	John B. Weller.....	Butler.
3	Robert C. Schenck.....	Montgomery.
4	Joseph Vance.....	Champaign.
5	Emery D. Potter.....	Lucas.
6	Henry St. John.....	Seneca.
7	Joseph J. McDowell.....	Highland.
8	John I. Van Meter.....	Pike.
9	Elias Florence.....	Pickaway.
10 {	Heman A. Moore †.....	Franklin.
	Alfred P. Stone †.....	Franklin.
11	Jacob Brinkerhoff.....	Richland.
12	Samuel F. Vinton.....	Gallia.
13	Perley B. Johnson.....	Morgan.
14	Alexander J. Harper, Jr.....	Muskingum.
15	Joseph Morris.....	Monroe.
16	James Matthews.....	Coshocton.
17	William McCauslin.....	Jefferson.
18	Ezra Dean.....	Wayne.
19	Daniel R. Tilden.....	Portage.
20	Joshua R. Giddings.....	Ashtabula.
21 {	Henry R. Brinkerhoff ‡.....	Huron.
	Edward S. Hamlin §.....	Lorain.

*Resigned in 1842, and re-elected April 26, 1842. †Died in 1844. ‡Vice H. A. Moore, deceased; Stone elected October 8, 1844. §Died in 1844. § Hamlin elected October 8, 1844, vice H. R. Brinkerhoff, deceased.

XXIXTH CONGRESS—FROM 1845 TO 1847.

Senators.		Counties.
William Allen		Ross.
Thomas Corwin		Warren.
Dist.	Representatives.	Counties.
1	James J. Faran	Hamilton.
2	Francis A. Cunningham	Preble.
3	Robert C. Schenck	Montgomery.
4	Joseph Vance	Champaign.
5	William Sawyer	Mercer.*
6	Henry St. John	Seneca.
7	Joseph J. McDowell	Highland.
8	Allen G. Thurman	Ross.
9	Augustus L. Perrill	Pickaway.
10	Columbus Delano	Knox.
11	Jacob Brinkerhoff	Richland.
12	Samuel F. Vinton	Gallia.
13	Isaac Parrish	Morgan.†
14	Alexander Harper, Jr.	Muskingum.
15	Joseph Morris	Monroe.
16	John D. Cummins	Tuscarawas.
17	George Fries	Columbiana.
18	David A. Starkweather	Stark.
19	Daniel R. Tilden	Portage.
20	Joshua R. Giddings	Ashtabula.
21	Joseph M. Root	Huron.

XXXTH CONGRESS—FROM 1847 TO 1849.

Senators.		Counties.
William Allen		Ross.
Thomas Corwin		Warren.
Dist.	Representatives.	Counties.
1	James J. Faran	Hamilton.
2	David Fisher	Clinton.
3	Robert C. Schenck	Montgomery.
4	Richard S. Canby	Logan.
5	William Sawyer	Mercer.‡
6	Rodolphus Dickinson	Sandusky.
7 {	Thomas L. Hamer ¶	Brown.
7 {	Jonathan D. Morris §	Clermont.
8	John L. Taylor	Ross.¹

* Now part of Auglaize. † Now part of Noble. ‡ Present county of Auglaize. ¶ General Thomas L. Hamer died in Mexico previous to the convening of the Congress to which he was elected, being at that time in the military service of the United States. § Vice Hamer, deceased.

XXXTH CONGRESS—REPRESENTATIVES—Continued.

Dist.	Representatives.	Counties.
9	Thomas O. Edwards	Fairfield.
10	Daniel Duncan	Licking.
11	John K. Miller	Knox.
12	Samuel F. Vinton	Gallia.
13	Thomas Ritchey	Perry.
14	Nathan Evans	Guernsey.
15	William Kennon, Jr.	Belmont.
16	John D. Cummins	Tuscarawas.
17	George Fries	Columbiana.
18	Samuel Lahm	Stark.
19	John Crowell	Trumbull.
20	Joshua R. Giddings	Ashtabula.
21	Joseph M. Root	Huron.

XXXIst CONGRESS—FROM 1849 TO 1851.

Senators.	Counties.
Thomas Corwin †	Warren.
Thomas Ewing §	Fairfield.
Salmon P. Chase	Hamilton.

Dist.	Representatives.	Counties.
1	David T. Disney	Hamilton.
2	Lewis D. Campbell	Butler.
3	Robert C. Schenck	Montgomery.
4	Moses B. Corwin	Champaign.
5	Emery D. Potter	Lucas.
6	Rodolphus Dickinson*	Sandusky.
6	Amos E. Wood †	Sandusky.
6	John Bell ‡	Sandusky.
7	Jonathan D. Morris	Clermont.
8	John L. Taylor	Ross.
9	Ed on B. Olds	Pickaway.
10	Charles Sweetzer	Delaware.
11	John K. Miller	Knox.
12	Samuel F. Vinton	Gallia.
13	William A. Whittlesey	Washington.
14	Nathan Evans	Guernsey.
15	William F. Hunter	Monroe.
16	Moses Hoagland	Holmes.
17	Joseph Cable	Carroll.
18	David K. Cartter	Stark.
19	John Crowell	Trumbull.
20	Joshua R. Giddings	Ashtabulo.
21	Joseph M. Root	Erie.

* Died in 1849, previous to the convening of the Congress to which he was elected.
† Vice Dickinson, deceased. Wood died in 1850.
‡ Resigned to accept the appointment of Secretary of the U. S. Treasury.
§ Vice Corwin, resigned.
|| Vice Wood, deceased. Bell elected December 20, 1850.

XXXIInd CONGRESS—FROM 1851 TO 1853.

Senators.		Counties.
Salmon P. Chase.....		Hamilton.
Benjamin F. Wade.....		Ashtabula.
Dist.	Representatives.	Counties.
1	David T. Disney.....	Hamilton.
2	Lewis D. Campbell.....	Butler.
3	Hiram Bell.....	Darke.
4	Benjamin Stanton.....	Logan.
5	Alfred P. Edgerton.....	Defiance.
6	Frederick W. Green.....	Seneca.
7	Nelson Barrere.....	Adams.
8	John L. Taylor.....	Ross.
9	Edson B. Olds.....	Pickaway.
10	Charles Sweetzer.....	Delaware.
11	George H. Busby.....	Marion.
12	John Welch.....	Athens.
13	James M. Gaylord.....	Morgan.
14	Alexander Harper, Jr.....	Muskingum.
15	William F. Hunter.....	Monroe.
16	John Johnson.....	Coshocton.
17	Joseph Cable.....	Carroll.
18	David K. Cartter.....	Stark.
19	Eben Newton.....	Mahoning.
20	Joshua R. Giddings.....	Ashtabula.
21	Norton S. Townsend.....	Lorain.

XXXIIIrd CONGRESS—FROM 1853 TO 1855.

Senators.		Counties.
Benjamin F. Wade.....		Ashtabula.
Salmon P. Chase.....		Hamilton.
Dist.	Representatives.	Counties.
1	David T. Disney.....	Hamilton.
2	John Scott Harrison.....	Hamilton.
3	Lewis D. Campbell.....	Butler.
4	Matthias H. Nichols.....	Allen.
5	Alfred P. Edgerton.....	Defiance.
6	Andrew Ellison.....	Brown.
7	Aaron Harlan.....	Greene.
8	Moses B. Corwin.....	Champaign.
9	Frederick W. Green.....	Seneca.
10	John L. Taylor.....	Ross.
11	Thomas Ritchey.....	Perry.
12	Edson B. Olds.....	Pickaway.
13	William D. Lindsley.....	Erie.
14	Harvey H. Johnson.....	Ashland.

XXXIII^D CONGRESS—REPRESENTATIVES—Continued.

Dist.	Representatives.	Counties.
15	William R. Sapp	Knox.
16	Edward Ball	Muskingum.
17	Wilson Shannon	Belmont.
18	George Bliss	Portage.
19	Edward Wade	Cuyahoga.
20	Joshua R Giddings	Ashtabula.
21	Andrew Stuart	Jefferson.

XXXIVTH CONGRESS—FROM 1855 TO 1857.

Senators.	Counties.
Benjamin F. Wade	Ashtabula.
George E. Pugh	Hamilton.

D	Representatives.	Counties.
1	Timothy C. Day	Hamilton.
2	John Scott Harrison	Hamilton.
3	Lewis D. Campbell	Butler.
4	Matthias H. Nichols	Allen.
5	Richard Mott	Lucas.
6	Jonas R. Emrie	Highland.
7	Aaron Harlan	Greene.
8	Benjamin Stanton	Logan.
9	Cooper K. Watson	Seneca.
10	Oscar F. Moore	Scioto.
11	Valentine B. Horton	Meigs.
12	Samuel Galloway	Franklin.
13	John Sherman	Richland.
14	Philemon Bliss	Lorain.
15	William R. Sapp	Knox.
16	Edward Ball	Muskingum.
17	Charles J. Albright	Guernsey.
18	Benjamin F. Leiter	Stark.
19	Edward Wade	Cuyahoga.
20	Joshua R. Giddings	Ashtabula.
21	John A. Bingham	Harrison.

XXXVTH CONGRESS—FROM 1857 TO 1859.

Senators.	Counties.
Benjamin F. Wade	Ashtabula.
George E. Pugh	Hamilton.

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XXXVTH CONGRESS—Continued.

Dist.	Representatives.	Counties.
1	George H. Pendleton	Hamilton.
2	William S. Groesbeck	Hamilton.
3	Lewis D. Campbell*	Butler.
3	Clement L. Vallandigham†	Montgomery.
4	Matthias H. Nichols	Allen.
5	Richard Mott	Lucas.
6	Joseph R. Cockerill	Adams.
7	Aaron Harlan	Greene.
8	Benjamin Stanton	Logan.
9	Lawrence W. Hall	Crawford.
10	Joseph Miller	Ross.
11	Valentine B. Norton	Meigs.
12	Samuel S. Cox	Franklin.
13	John Sherman	Richland.
14	Philemon Bliss	Lorain.
15	Joseph Burns	Coshocton.
16	Cydnor B. Tompkins	Morgan.
17	William Lawrence	Greene.
18	Benjamin F. Leiter	Stark.
19	Edward Wade	Cuyahoga.
20	Joshua R. Giddings	Ashtabula.
21	John A. Bingham	Harrison.

XXXVITH CONGRESS—FROM 1859 TO 1861.

Senators.	Counties.
Benjamin F. Wade	Ashtabula.
George E. Pugh	Hamilton.

Dist.	Representatives.	Counties.
1	George H. Pendleton	Hamilton.
2	John A. Gurley	Hamilton.
3	Clement L. Vallandigham	Montgomery.
4	William Allen	Darke.
5	James M. Ashley	Lucas.
6	William Howard	Clermont.
7	Thomas Corwin	Warren.
8	Benjamin Stanton	Logan.
9	John Carey	Wyandot.
10	Carey A. Trimble	Ross.
11	Charles D. Martin	Fairfield.
12	Samuel S. Cox	Franklin.
13	John Sherman	Richland.
14	Harrison G. Blake	Medina.
15	William Helmick	Tu-cawwas.
16	Cydnor B. Tompkins	Morgan.
17	Thomas C. Theaker	Belmont.
18	Sidney Edgerton	Summit.
19	Edward Wade	Cuyahoga.
20	John Hutchins	Trumbull.
21	John A. Bingham	Harrison.

* Seat given to C. L. Vallandigham on contest. † Vice L. D. Campbell.

XXXVIIth CONGRESS—FROM 1861 TO 1863.

Senators.		Counties.
Benjamin F. Wade		Ashtabula.
Salmon P. Chase (a)		Hamilton.
John Sherman (b)		Richland.

Dist.	Representatives.	Counties.
1	George H. Pendleton	Hamilton.
2	John A. Gurley	Hamilton.
3	Clement L. Vallandigham	Montgomery.
4	William Allen	Darke.
5	James M. Ashley	Lucas.
6	Chilton A. White	Brown.
7 {	Thomas Corwin (c)	Warren.
	Richard A. Harrison (d)	Madison.
8	Samuel Shellabarger	Clarke.
9	Warren P. Noble	Seneca.
10	Carey A. Trimble	Ross.
11	Valentine B. Horton	Meigs.
12	Samuel S. Cox	Franklin.
13 {	John Sherman (e)	Richland.
	Samuel T. Worcester (f)	Huron.
14	Harrison G. Blake	Medina.
15	Robert H. Nugen	Tuscarawas.
16	William P. Cutler	Washington.
17	James R. Morris	Monroe.
18	Sidney Edgerton	Summit.
19	Albert G. Riddle	Cuyahoga.
20	John Hutchins	Trumbull.
21	John A. Bingham	Harrison.

XXXVIIIth CONGRESS—FROM 1863 TO 1865.

Senators.		Counties.
Benjamin F. Wade		Ashtabula.
John Sherman		Richland.

Dist.	Representatives.	Counties.
1	George H. Pendleton	Hamilton.
2	Alexander Long	Hamilton.
3	Robert C. Schenck	Montgomery.
4	John F. McKinney	Miami.
5	Francis C. LeBlond	Mercer.

(a) Resigned to accept the appointment of Secretary of the United States Treasury.
(b) Vice Chase, resigned.
(c) Resigned to accept the appointment of Minister to Mexico.
(d) Vice Corwin, resigned.
(e) Resigned to accept the office of United States A.
(f) Vice Sherman, resigned.

XXXVIIIth CONGRESS—REPRESENTATIVES—Continued.

Dist.	Representatives.	Counties.
6	Chilton A. White	Brown.
7	Samuel S. Cox	Franklin.
8	William Johnson	Richland.
9	Warren P. Noble	Seneca.
10	James M. Ashley	Lucas.
11	Wells A. Hutchins	Scioto.
12	William E. Finck	Perry.
13	John O'Neill	Muskingum.
14	George Bliss	Wayne.
15	James R. Morris	Monroe.
16	Joseph W. White	Guernsey.
17	Ephraim R. Eckley	Carroll.
18	Rufus P. Spalding	Cuyahoga.
19	James A. Garfield	Portage.

XXXIXth CONGRESS—FROM 1865 TO 1867.

Senators.	Counties.
Benjamin F. Wade	Ashtabula.
John Sherman	Richland.

Dist.	Representatives.	Counties.
1	Benjamin Eggleston	Hamilton.
2	Rutherford B. Hayes	Hamilton.
3	Robert C. Schenck	Montgomery.
4	William Lawrence	Logan.
5	Francis C. LeBlond	Mercer.
6	Reader W. Clark	Clermont.
7	Samuel Shellabarger	Clarke.
8	James R. Hubbell	Delaware.
9	Ralph P. Buckland	Sandusky.
10	James M. Ashley	Lucas.
11	Hezekiah S. Bundy	Jackson.
12	William E. Finck	Perry.
13	Columbus Delano	Knox.
14	Martin Welker	Wayne.
15	Tobias A. Plants	Meigs.
16	John A. Bingham	Harrison.
17	Ephraim R. Eckley	Carroll.
18	Rufus P. Spalding	Cuyahoga.
19	James A. Garfield	Portage.

XLth CONGRESS—FROM 1867 TO 1869.

Senators.	Counties.
Benjamin F. Wade	Ashtabula.
John Sherman	Richland.

XLTH CONGRESS—Continued.

	Representatives.	Counties.
1	Benjamin Eggleston	Hamilton.
2 {	Rutherford B. Hayes *	Hamilton.
	Samuel F. Carey †	Hamilton.
3	Robert C. Schenck	Montgomery.
4	William Lawrence	Logan.
5	William Mungen	Hancock.
6	Reader W. Clarke	Clermont.
7	Samuel Shellabarger	Clarke.
8 {	Cornelius S. Hamilton ‡	Union.
	John Beatty §	Morrow.
9	Ralph P. Buckland	Sandusky.
10	James M. Ashley	Lucas.
11	John T. Wilson	Adams.
12	Philadelph Van Trump	Fairfield.
13	George W. Morgan	Knox.
14	Martin Welker	Wayne.
15	Tobias A. Plants	Meigs.
16	John A. Bingham	Harrison.
17	Ephraim R. Eckley	Carroll.
18	Rufus P. Spalding	Cuyahoga.
19	James A. Garfield	Portage.

XL1st CONGRESS—FROM 1869 TO 1871.

Senators.	Counties.
John Sherman	Richland.
Allen G. Thurman	Franklin.

Dist.	Representatives.	Counties.
1	Peter W. Strader	Hamilton.
2	Job E. Stevenson	Hamilton.
3	Robert C. Schenck	Montgomery.
4	William Lawrence	Logan.
5	William Mungen	Hancock.
6	John A. Smith	Highland.
7	James J. Winans	Greene.
8	John Beatty	Morrow.
9	Edward F. Dickinson	Sandusky.
10 {	Truman H. Hoag ¶	Lucas.
	Erasmus D. Peck ¶	Wood.
11	John T. Wilson	Adams.
12	Philadelph Van Trump	Fairfield.
13	George W. Morgan	Knox.
14	Martin Welker	Wayne.
15	Eliakim H. Moore	Athens.
16	John A. Bingham	Harrison.
17	Jacob A. Ambler	Columbiana.
18	William H. Upson	Summit.
19	James A. Garfield	Portage.

* Resigned in 1867 to accept the office of Governor of Ohio. † Vice Hayes, resigned.
‡ Died Dec. 22, 1867. § Vice Hamilton, deceased. ¶ Died in 1870. ¶ Vice Hoag, deceased.

XLIIND CONGRESS—FROM 1871 TO 1873.

Senators.		Counties.
John Sherman		Richland.
Allen G. Thurman		Franklin.
Dist.	Representatives.	Counties.
1 {	Aaron F. Perry (a)	Hamilton.
2 {	Ozro J. Dodds (b)	Hamilton.
3 {	Job E. Stevenson	Hamilton.
4 {	Lewis D. Campbell	Butler.
5 {	John F. McKinney	Miami.
6 {	Charles N. Lamison	Allen.
7 {	John A. Smith	Highland.
8 {	Sammel Shellabarger	Clarke.
9 {	John Beatty	Morrow.
10 {	Charles Foster	Seneca.
11 {	Erasmus D. Peck	Wood.
12 {	John T. Wilson	Adams.
13 {	Philadelph Van Trump	Fairfield.
14 {	George W. Morgan	Knox.
15 {	James Monroe	Lorain.
16 {	William P. Spragne	Morgan.
17 {	John A. Bingham	Harrison.
18 {	Jacob A. Ambler	Columbiana.
19 {	William H. Upson	Summit.
	James A. Garfield	Portage.

XLIIIRD CONGRESS—FROM 1873 TO 1875.

Senators.		P. O. Address.	Counties.
John Sherman		Mansfield	Richland.
Allen G. Thurman		Columbus	Franklin.
Dist.	Representatives.	P. O. Address.	Counties.
1	Milton Sayler	Cincinnati	Hamilton.
2	Henry B. Banning	Cincinnati	Hamilton.
3	John Q. Smith	Oakland	Clinton.
4	Lewis B. Gnuemel	Dayton	Montgomery.
5	Charles N. Lamison (c)	Lima	Allen.
6	Isaac R. Sherwood	Bryan	Williams.
7	Lawrence T. Neal	Chillicothe	Ross.
8	William Lawrence (d)	Bellefontaine	Logan.
9	James W. Robinson	Marysville	Union.
10	Charles Foster (c)	Fostoria	Seneca.

(a) Resigned in 1872. (b) Vice Perry, resigned. (c) Member of 42d Congress.
(d) Member of 39th, 40th, and 41st Congress.

XLIII^d CONGRESS—REPRESENTATIVES—Continued.

Dist.	Representatives.	P. O. Address.	Counties.
11	Hezekiah S. Bundy†	Reed's Mills	Jackson.
12	Hugh J. Jewett	Columbus	Franklin.
13	Milton I. Southard	Zanesville	Muskingum.
14	John Berry	Upper Sandusky	Wyandot.
15	William P. Sprague†	McConelsville	Morgan.
16	Lorenzo Danford	St. Clairsville	Belmont.
17	Laurin D. Woodworth	Youngstown	Mahoning.
18	James Monroe†	Oberlin	Lorain.
19	James A. Garfield‡	Hiram	Portage.
20	Richard C. Parsons	Cleveland	Cuyahoga.

† Member of 42d Congress. † Member of 39th Congress.
‡ Member of 38th, 39th, 40th, 41st, and 42d Congress.

XLIVth CONGRESS—1875 TO 1877.

Senators.	P. O. Address.	Counties.
John Sherman	Mansfield	Richland.
Allen G. Thurman	Columbus	Franklin.

Dist.	Representatives.	P. O. Address.	Counties.
1	Milton Saylor†	Cincinnati	Hamilton.
2	Henry B. Bann†	Cincinnati	Hamilton.
3	John S. Savage	Wilmington	Clinton.
4	John A. McMahon	Dayton	Montgomery.
5	Americus V. Rice	Ottawa	Putnam.
6	Frank H. Hurd	Toledo	Lucas.
7	Lawrence T. Nealt	Chillicothe	Ross.
8	William Lawrence†	Bellefontaine	Logan.
9	Early F. Poppleton	Delaware	Delaware.
10	Charles Foster‡	Fostoria	Seneca.
11	John L. Vance	Gallipolis	Gallia.
12	Ansel T. Walling	Circleville	Pickaway.
13	Milton I. Southard†	Zanesville	Muskingum.
14	Jacob P. Cowen	Ashland	Ashland.
15	Nelson H. Van Vorhes	Athens	Athens.
16	Lorenzo Danford†	St. Clairsville	Belmont.
17	Laurin D. Woodworth†	Youngstown	Mahoning.
18	James Monroe‡	Oberlin	Lorain.
19	James A. Garfield§	Hiram	Portage.
20	Henry B. Payne	Cleveland	Cuyahoga.

† Member of 43d Congress.
‡ Member of 39th, 40th, 41st, and 43d Congress.
‡ Member of 42d and 43d Congress.
§ Member of 38th, 39th, 40th, 41st, 42d, and 43d Congress.

XLVth CONGRESS—1877 TO 1879.

Senators.		P. O. Address.	Counties.
John Sherman.....		Mansfield	Richland.
Allen G. Thurman		Columbus	Franklin.

Dist.	Representatives.	P. O. Address.	Counties.
1	Milton Saylor*.....	Cincinnati	Hamilton.
2	Henry B. Banning*	Cincinnati	Hamilton.
3	Mills Gardner.....	Washington	Fayette.
4	John A. McMahon†	Dayton	Montgomery.
5	Americus V. Rice†	Ottawa	Putnam.
6	Jacob D. Cox.....	Toledo	Lucas.
7	Henry L. Dickey	Greenfield	Highland.
8	J. Warren Keifer	Springfield	Clarke.
9	John S. Jones.....	Delaware	Delaware.
10	Charles Foster†.....	Fostoria	Seneca.
11	Henry S. Neal	Ironton	Lawrence.
12	Thomas Ewing	Lancaster	Fairfield.
13	Milton I. Southard *	Zanesville	Muskingum.
14	Ebenezer B. Finley	Bacyrus	Crawford.
15	Nelson H. Van Vorhes †	Athens	Athens.
16	Lorenzo Danford*	St. Clairsville.....	Belmont.
17	William McKinley, Jr	Canton	Stark.
18	James Monroe†	Oberlin	Lorain.
19	James A. Garfield|| .....	Mentor	Lake.
20	Amos Townsend	Cleveland	Cuyahoga.

* Member of 43d and 44th Congress. † Member of 44th Congress. ‡ Member of 42d, 43d, and 44th Congress. || Member of 39th, 40th, 41st, 42d, 43d, and 44th Congress.

XLVITH CONGRESS—1879 TO 1881.

Senators.		P. O. Address.	Counties.
Allen G. Thurman		Columbus	Franklin.
George H. Pendleton		Cincinnati	Hamilton.
Dist.	Representatives.	P. O. Address.	Counties.
1	Benjamin Butterworth	Cincinnati	Hamilton.
2	Thomas L. Young	Cincinnati	Hamilton.
3	John A. McMahon*	Dayton	Montgomery.
4	J. Warren Keifer†	Springfield	Clarke.
5	Benjamin LeFever	Sidney	Shelby.
6	William D. Hill	Defiance	Defiance.
7	Frank H. Hurd	Toledo	Lucas.
8	Ebenezer B. Finley†	Bucyrus	Crawford.
9	George L. Converse	Columbus	Franklin.
10	Thomas Ewing	Lancaster	Fairfield.
11	Henry L. Dickey†	Greenfield	Highland.
12	Henry S. Neal†	Ironton	Lawrence.
13	Adoniram J. Warner	Marietta	Washington.
14	Gibson Atherton	Newark	Licking.
15	George W. Geddes	Mansfield	Richland.
16	William McKinley, Jr.†	Canton	Stark.
17	James Monroe†	Oberlin	Lorain.
18	Jonathan T. Updegraff	Mt. Pleasant	Jefferson.
19	James A. Garfield‡	Mentor	Lake.
20	Amos Townsend†	Cleveland	Cuyahoga.

* Member of the 43d, 44th, and 45th Congress. † Member of the 45th Congress.
‡ Member of the 42d, 43d, 44th, and 45th Congress. § Member of the 39th, 40th, 41st,
42d, 43d, 44th, and 45th Congress.

NOTE.—The Congressional districts having been changed in 1878, the foot notes on
preceding pages in relation thereto, refer only to changes previously made.

**OFFICIAL
ROSTER OF OHIO
FOR 1878-79,**

**INCLUDING THE HEADS OF DEPARTMENTS AND APPOINTED OFFICERS,
JUDGES OF THE COURTS, AND TIMES OF HOLDING COURTS, TRUSTEES
AND OFFICERS OF STATE EDUCATIONAL, REFORMATORY, AND
BENEVOLENT INSTITUTIONS, MEMBERS OF THE GEN-
ERAL ASSEMBLY OF OHIO, APPORTIONMENT
OF GENERAL ASSEMBLY, COUNTY
OFFICERS, Etc., Etc., Etc.**

STATE OFFICERS FOR 1878-79.

ELECTIVE OFFICERS.

Office.	Name.	Residence.	Term expires.
Governor	Richard M. Bishop..	Cincinnati	Jan. 14, 1880
Lieutenant-Governor	Jabez W. Fitch.....	Cleveland	Jan. 14, 1880
Secretary of State	Milton Barnes (a)...	Cambridge	Jan. 13, 1879
Auditor of State.....	James Williams	Columbus	Jan. 12, 1880
Treasurer of State.....	Anthony Howells...	Massillon	Jan. 12, 1880
Attorney-General	Isaiah Pillars.....	Lima	Jan. 12, 1880
Commissioner of Common Schools.	J. J. Burns.....	St. Clairsville..	Jan. 10, 1881
Clerk of Supreme Court.....	Richard J. Fanning.	Columbus	Feb. 6, 1881
Board of Public Works.....	Peter Thatcher (b)...	Cleveland	Feb. 8, 1879
	James C. Evans.....	Delaware	Feb. 10, 1880
	Martin Schilder	Chillicothe	Feb. 9, 1881
	William White (c)...	Springfield	Feb. 9, 1879
Judges of the Supreme Court...	W. J. Gilmore.....	Eaton	Feb. 9, 1880
	Geo. W. McIlvaine..	N. Philadelphia.	Feb. 9, 1881
	W. W. Boynton.....	Elyria	Feb. 9, 1882
	John W. Okey.....	Columbus	Feb. 9, 1883

OFFICERS BY APPOINTMENT—HEADS OF DEPARTMENTS.

Office.	Name.	Residence.	Term.	
			Years	Expires.
Commissioner of Railroads and Telegraphs	William Bell, Jr.....	Columbus ...	2	Jan. 17, 1880
Superintendent of Insurance ..	Joseph F. Wright....	Mt. Healthy..	3	June 3, 1881
Supervisor of Public Printing..	William W. Bond....	Columbus ...	2	Apr. 12, 1879
Adjutant-General	Luther M. Meily.....	Lima	2	Jan. 15, 1880
Inspector of Mines.....	James D. Poston.....	Logan	4	Apr. 6, 1882
Secretary of State Board of Ag- riculture	John H. Klippart (d).	Columbus ...	1	Jan. 8, 1879
State Librarian.....	R. M. Stimson.....	Marietta.....	2	Mar. 17, 1879
Law Librarian.....	James H. Beebe.....	Columbus ...	3	Feb. 9, 1880
Supreme Court Commission. {	W. W. Johnson.....	Ironton	3	Feb. 1, 1879
	Josiah Scott.....	Bucyrus	3	Feb. 1, 1879
	Luther Day.....	Ravenna	3	Feb. 1, 1879
	D. Thew Wright	Cincinnati ..	3	Feb. 1, 1879
	T. Q. Ashburn.....	Batavia	3	Feb. 1, 1879
Commission to Revise and Codify the Laws.....	M. A. Daugherty.....	Columbus ...		
	John S. Brasee.....	Lancaster ...		
	Geo. B. Okey.....	Cincinnati ..		
Commissioner of Labor Statis- tics	H. J. Walls (e)	Columbus ...	2	Jan. 1, 1879

(a) Re-elected for two years from January 13, 1879.
(b) George Paul, of Akron, elected for three years from February 8, 1879.
(c) Re-elected for five years from February 9, 1879.
(d) Died October 24, 1878.
(e) Re-appointed January 1, 1879, for two years.

HEADS OF DEPARTMENTS AND ROSTERS OF APPOINTED OFFICERS.

OFFICIAL ROSTER OF CIVIL AND MILITARY STAFF OF GOVERNOR RICHARD M. BISHOP—
EXECUTIVE DEPARTMENT.*Civil Staff.*

Name.	Office.	Residence.	Term of office.	Term expires.
Richard M. Bishop...	Governor	Cincinnati ..	Two years ...	Jan. 14, 1880.
R. H. Bishop.....	Private Secretary ...	Cincinnati ..	.....	"
Albert Allen.....	Executive Secretary.	Columbus ..	Two years ...	"
Johnson Allen.....	Messenger	Columbus ..	"	"

Military Staff.

Name.	Office.	Residence.	Rank.	Term expires.
Luther M. Melly.....	Adjutant-General ...	Lima	Brig.-General	Jan. 14, 1880.
Leander R. Hoagland	Ass't Adjutant-Gen'l.	Millersburg .	Colonel	"
Samuel F. Hunt.....	Judge Adv.-General .	Cincinnati ..	Brig.-General	"
Chas. L. Young.....	Quartermaster-Gen'l	Toledo	"	"
J. Emmet Burns	Surgeon-General	Cleveland ..	"	"
Frederick Geiger.....	Chief of Engineers..	Zanesville ..	Colonel	"
William A. Burchard.	Aid-de-Camp.....	Warren	"	"
Carson Lake.....	"	Akron	"	"
Richard Nevins, Jr...	"	Columbus ..	"	"
Griffin H. Eidson.....	"	Eaton	"	"
Evan F. Williams.....	"	Ironton	"	"
Louis Schmidt.....	"	Marietta.....	"	"
James M. Williams...	"	Coshocton ..	"	"
Ralph K. Page.....	"	Painesville .	"	"
Thos. R. Roberts.....	"	Cincinnati ..	"	"
M. L. Hall.....	"	Sidney	"	"

DEPARTMENT OF STATE.

Name.	Office.	Residence.	Term of office.	Term expires.
Milton Barnes *.....	Secretary of State...	Cambridge ..	Two years ...	Jan. 13, 1879.
Alexis Cope	Chief clerk	St. Clairsville	"	"
W. M. Cunningham.	Statistician	Newark	"	"
Frank P. Barnes.....	Corporation clerk ...	Barnesville ..	"	"
John W. Base	Recording clerk.....	Quaker City .	"	"
Charles H. Ostrander	Stationery clerk.....	Cleveland ...	"	"
George Welker	Sup't packing dep't .	Columbus ...	.....	.....
Josiah Wilson	Janitor	Williamsburg	.....	.....

* Re-elected for two years from January 13, 1879.

HEADS OF DEPARTMENTS AND ROSTERS OF APPOINTED OFFICERS—Continued.

AUDITOR OF STATE.

Name.	Office.	Residence.	Term of office.	Term expires.
James Williams	Auditor of State	<i>Columbus.</i> 78 N. Fourth st.	Four years.....	Jan. 12, 1880.
Henry S. Babbitt ...	Chief clerk and deputy	40 " .	Pleasure of auditor	"
W. Staley Shepherd.	Clerk.....	39 " .	"	"
Jas. A. Williams.....	"	328 Oak st	"	"
Horatio J. Cox	"	88 " .	"	Aug. 1, 1878.
Samuel Williams ...	"	161 E. Gay st..	"	Jan. 12, 1880.
Chas. J. Wetmore...	"	393 E. Broad st.	"	"
Godfrey M. Robinson	"	60 E. Gay st...	"	"
John Williams	Messenger	179 E. Spring st	"	"

TREASURER OF STATE.

Name.	Office.	Residence.	Term of office.	Term expires.
Anthony Howells...	Treasurer of State ..	Massillon	Two years ...	Jan. 14, 1880.
J. D. Selzer.....	Cashier	Cleveland ...	" .	"
A. J. Howells.....	Book-keeper	Columbus ...	" .	"
J. B. Estep	"	" .	" .	"
D. N. Thomas.....	Messenger .....	.....	.....
James Lee.....	Special watchman...	.....	.....
Lewis Lemoine	General watchman ..	.....	.....

ATTORNEY GENERAL.

Name.	Office.	Residence.	Term of office.	Term expires.
Isaiah Pillars.....	Attorney General ..	Lima	2 years.	Jan. 12, 1880.
James Pillars.....	Clerk.....	"	2 .	Jan. 12, 1880.

COMMISSIONERS OF SINKING FUND.

Name.	Office.	Residence.	Term expires.
Jas. Williams, And. of State, President	.....	.....	Jan. 11, 1880.
Milton Barnes, Sec'y of State, Sec'y ..	Ex-officio .....	.....	Jan. —, 1881.
Isaiah Pillars, Attorney General.....	.....	.....	Jan. 11, 1880.
F. A. Marble.....	Clerk.....	Columbus	
John Williams.....	Messenger	"	

HEADS OF DEPARTMENTS AND ROSTERS OF APPOINTED OFFICERS—Continued.

COMMISSIONER OF COMMON SCHOOLS.

Name.	Office.	Residence.	Term of office.	Term expires.
J. J. Burns	Commissioner.....	St. Clairsville....	3 years.	Jan. 10, 1881.
John H. Brenneman	Chief Clerk	Chillicothe	3 " .	Jan. 10, 1881.
James B. Ryan.....	Second Clerk.....	St. Clairsville....	3 " .	Jan. 10, 1881.

BOARD OF PUBLIC WORKS.

Name.	Office.	Residence.	Term of office.	Term expires.
Peter Thatcher ...	Member of Board.	Cleveland ...	3 years.	2d Tuesday in Feb., 1879.
James C. Evans...	" "	Delaware	3 " .	2d Tuesday in Feb., 1880.
Martin Schilder...	" "	Chillicothe ..	3 " .	2d Tuesday in Feb., 1881.
W. J. Jackson	Chief Engineer ..	Columbus ...	2 " .	May 22, 1880.
Wm. S. Williams..	Resident Engineer	Canton	1 " .	2d Tuesday in Feb., 1879.
A. J. Cryder.....	" "	Chillicothe ..	1 " .	2d Tuesday in Feb., 1879.
John W. Irwin....	" "	Hamilton	1 " .	2d Tuesday in Feb., 1879.
A. B. Newburgh ..	Secretary	Columbus ...	1 " .	2d Tuesday in Feb., 1879.
F. W. Newburgh..	Assistant Sec'y...	Columbus ...	1 " .	2d Tuesday in Feb., 1879.

COMMISSIONER OF RAILROADS AND TELEGRAPHS.

Name.	Office.	Residence.	Term of office.	Term expires.
William Bell, Jr.....	Commissioner.....	Columbus	2 years.	Jan. 17, 1880.
Sam. C. Bell.....	Chief Clerk	"	2 " .	Jan. 17, 1880.
Frank W. Merriek	Assistant Clerk	"	2 " .	Jan. 17, 1880.

SUPERINTENDENT OF INSURANCE.

Name.	Office.	Residence.	Term of office.	Term expires.
Joseph F. Wright.....	Superintendent	Mt. Healthy	3 years.	June 3, 1881.
Joseph P. Pennington...	Actuary	Columbus	3 " .	June 3, 1881.
J. Gano Wright.....	Book-keeper	Mt. Healthy	3 " .	June 3, 1881.
Miss Carrie Lind.....	Correspond'g Clerk.	Mansfield	3 " .	June 3, 1881.
C. P. Woods.....	Mailing Clerk.....	Columbus	3 " .	June 3, 1881.

SUPERVISOR OF PUBLIC PRINTING, STATE BINDERY, AND D. AND D. PRINTING OFFICE.

Name.	Office.	Residence.	Term of office.	Term expires.
W. W. Bond.....	Supervisor Public Print'g.	Columbus .	2 years.	Apr. 12, 1879.
M. C. Lilley	Supt. State Bindery.....	" .	2 " .	Apr. 12, 1879.
Geo. C. Smelz	Asst. Supt. State Bindery.	" .	2 " .	Apr. 12, 1879.
A. B. Laurens	Supt. D. & D. Print. Office.	" .	2 " .	Apr. 12, 1879.

HEADS OF DEPARTMENTS AND ROSTERS OF APPOINTED OFFICERS—Continued.

COMMISSIONERS OF PUBLIC PRINTING.

Name.	Office.	Residence.
Milton Barnes, Secretary of State.....	Ex-officio	Cambridge.
James Williams, Auditor of State.....		Columbus.
Isaiah Pillars, Attorney General		Lima.

ADJUTANT-GENERAL—(Ex officio Superintendent of State House).

Name.	Office.	Residence.	Term of office.	Term expires.
Luther M. Meily.....	Adjutant-General ..	Lima	2 years.	Jan. 15, 1880.
Leander R. Hoagland...	Asst. Adjt.-General.	Millersburg	"	Jan. 15, 1880.
Daniel G. Fitch.....	Chief Clerk.....	Dayton	"	Jan. 15, 1880
Robert H. Higgins	Transcribing Clerk	Georgetown	"	Jan. 15, 1880.
George W. Houk, Jr.....	" "	Dayton	"	Jan. 15, 1880
Frank Stible	Supt. State Arsenal	Sandusky.....	"	Jan. 15, 1880
Andrew Hennessy	Foreman of laborers	Lima		
Wm. J. Creed	Janitor of flag-room	Lancaster		
Milton Turner	" rotunda..	Cambridge.....		
L. K. Sands.....	Carpenter	Columbus		
Wm. Allensworth.....	Engineer	Troy		
Edward McGill	Fireman	Columbus		
Patrick McCarthy	Assistant fireman ..	"		
Wm. Domigan	Policeman	"		
Louis Lemoine	Night-watch	Macedonia		
Fred. Blankner, Jr..	Laborer	Columbus		
Albert Riley.....	"	"		
Patrick Griffin.....	"	"		
James Fallon.....	"	"		
Patrick Sullivan.....	"	"		
Patrick Kelly.....	"	"		
Adam Gosslein	"	"		
Thomas Delany	"	Soldiers' Home		
Peter H. Frazier	"	"		

STATE BOARD OF AGRICULTURE.

Name.	Office.	Residence.	Term of office.	Term expires.
J. M. Pugh	President	Columbus	1 year	Jan. 1, 1879.
L. B. Wing	Treasurer.....	Sewark	1 year	Jan. 1, 1879.
Joe. H. Klippart*	Secretary	Columbus	1 year	
Joe. W. Fleming.....	Assistant Secretary	"	1 year	Jan. 1, 1879.

* Deceased October 24, 1879.

HEADS OF DEPARTMENTS AND ROSTERS OF APPOINTED OFFICERS—Continued

OHIO STATE LIBRARY.

Name.	Office.	Residence.	Term of office.	Term expires.
R. M. Stimson	Librarian	Marietta	2 years.	March, 1879.
Mary C. Harbaugh	Assist. Librarian...	Columbus .....	.....

COMMISSIONERS OF THE OHIO STATE LIBRARY.

Name.	Office.	Residence.
Richard M. Bishop, Governor	} Ex officio	{ Cincinnati.
Milton Barnes, Secretary of State		{ Cambridge.
R. M. Stimson, State Librarian		{ Marietta.

OHIO STATE LAW LIBRARY.

Name.	Office.	Residence.	Term of office.	Term expires.
James H. Beebe	Law Librarian	Columbus	3 years.	Feb. 9, 1879.
Frank N. Beebe	Asst. Law Librarian	Columbus	1 year	Second Tuesday after 1st Monday in December.

BOARD OF STATE CHARITIES.

Name.	Office.	Residence.	Term of office.	Term expires.
Gov. R. M. Bishop, Ex-officio President ..	Mem. of B'd.	Cincinnati ...	3 years.	
John W. Andrews, President pro tem.	"	Columbus ...	3 "	1880.
R. Brinkerhoff	"	Mansfield ...	3 "	1881.
Carl Boesel	"	New Bremen. .	3 "	1881.
Joseph Perkins	"	Cleveland ...	3 "	1880.
Murray Shipley	"	Cincinnati ..	3 "	1879.
Rev. A. G. Byers	Secretary ...	Columbus ...	.....

OHIO STATE FISH COMMISSION.

Name.	Office.	Residence.	Term of office.	Term expires.
J. C. Fisher	President	Coshocton	3 years.	April, 1881.
Robert Cummins	Treasurer	Toledo	3 "	April, 1881.
L. A. Harris	Secretary	Cincinnati	3 "	April, 1881.
E. D. Potter	Supt. of Hatchery..	Toledo .....	.....

HEADS OF DEPARTMENTS AND ROSTERS OF APPOINTED OFFICERS—Continued.

DEPARTMENT OF MINES.

Name.	Office.	Residence.	Term of office.	Term expires.
Jas. D. Poston	State Inspector of Mines	Logan	4 years.	April 6, 1882.

DEPARTMENT OF LABOR STATISTICS.

Name.	Office.	Residence.	Term of office.	Term expires.
H. J. Walls (a)	Commissioner	Columbus	2 years.	Jan. 1, 1879.

(a) Reappointed.

OHIO STATE UNIVERSITY, COLUMBUS.

BOARD OF TRUSTEES.

Name.	Residence.
J. H. Anderson	Columbus.
Alston Ellis	Hamilton.
Thomas J. Godfrey	Celina.
S. H. Ellis	Springboro.
Stephen Johnston	Piqua.
James B. Jamison	Cadiz.
T. Ewing Miller	Columbus.

OFFICERS OF THE BOARD.

Name.	Office.	Residence.
Thomas J. Godfrey	President.	Celina.
Albert Allen.....	Secretary.	Columbus.
Henry S. Babbitt.....	Treasurer.	"

EXECUTIVE COMMITTEE.

Name.	Residence.
J. H. Anderson	Columbus.
T. Ewing Miller	Columbus.
Stephen Johnston	Piqua.

FARM COMMITTEE.

Name.	Residence.
S. H. Ellis	Springboro.
James B. Jamison	Cadiz.
J. H. Anderson.....	Columbus.

OHIO STATE UNIVERSITY—Continued.

FINANCE COMMITTEE.

Name.	Residence.
T. Ewing Miller	Columbus.
Alston Ellis	Springboro.
Stephen Johnston	Piqua.

FACULTY.

Edward Orton, Ph.D., President, and Professor of Geology.

Sidney A. Norton, Ph.D., M.D., Professor of General and Applied Chemistry.

Joseph Millikin, A.M., Professor of the English Language and Literature, and of the French and German Languages.

Norton S. Townshend, M.D., Professor of Agriculture.

R. W. McFarland, A.M., Professor of Mathematics and Civil Engineering.

Albert H. Tuttle, M.Sc., Professor of Zoölogy and Comparative Anatomy.

Luigi Lomia, M.Sc., First Lieutenant Fifth Artillery, U. S. A., Professor of Military Science and Tactics, and Adjunct Professor of Mathematics.

John A. Church, M.E., Professor of Mining and Metallurgy.

S. W. Robinson, A.M., Professor of Physics and Mechanics.

Josiah R. Smith, A.B., Assistant Professor of the Latin and Greek Languages.

Thomas Mathew, Instructor in Free-hand and Mechanical Drawing.

Alice Williams, Assistant in Department of Modern Languages.

Josiah R. Smith, A.B., Librarian.

Mary F. Morrison, Assistant Librarian.

Nat. W. Lord, M.E., Assistant in State Laboratory.

OHIO INSTITUTION FOR THE EDUCATION OF THE DEAF
AND DUMB.

BOARD OF TRUSTEES.

Name.	Residence.
Jacob Rohrheimer.....	Cleveland.
L. L. Lamborn	Alliance.
Samuel Thomas.....	Columbus.
John Cooke.....	Bridgeport.
E. L. Hinman.....	Columbus.

OFFICERS.

Gilbert O. Fay.....Superintendent.

INSTRUCTORS :

Academic Department.

Charles S. Perry, M.A., Robert Patterson, B.A.

Grammar Department.

John D. H. Stewart, Sarah Noyes, James M. Park, B.A.
Louisa K. Thompson, Lucy E. Brown,

Primary Department.

Plumb M. Park, Kate Millikin, Carrie M. Feasley,
Matthew G. Raffington, Sarah F. Perry, Mary B. Straw,
Cassie H. Smith, M. Annie Byers, Althea B. Jones,
Mary C. Bierce, Augustus B. Greener, Jennie A. Shrom,
George W. Halse, Harriet W. Dare, Gertie E. Woofter,
Ruth E. Hare,

Articulation Department.

Ida W. Kessler, Fannie L. Howells.

Domestic Department.

N. R. Coleman, M.D.,.....Physician.
H. C. Filler.....Steward.
Charlotte A. Babbitt.....Matron.
Mary Syler.....Assistant Matron.
Helen A. Rose.....“ “
Mary A. Kidder.....Housekeeper.

Department of Trades.

Parley P. Pratt.....Master of Shoe-shop.
W. W. Bond.....Supervisor Public Printing.
Mitchell C. Lilley.....Master of Book-bindery.
A. B. Laurens.....Master of Printing-office.

OHIO INSTITUTION FOR THE EDUCATION OF THE BLIND.

BOARD OF TRUSTEES.

Name.	Residence.
Joseph Falkenbach.....	Columbus.
W. R. Wing	Newark.
Harmon Austin	Warren.
C. Blazer	Waverly.
S. D. Houpt.....	Findlay.

OFFICERS.

Name.	Office.
George L. Smead.....	Superintendent.
John McCarty	Steward.
S. C. Gamble, A.B.....	Teacher of Literary Department.
Frank Lumt	" " "
Miss Lizzie Armstrong.....	" " "
Mrs. A. E. Heyl	" " "
Miss Nellie B. Holt	" " "
Miss Mary S. Redick	" " "
Prof. H. J. Nothnagle	Teacher of music.
James McCombs	" "
Miss Joanna Donavan.....	" "
Miss M. A. Tipton.....	" "
Miss Katie Henderlick.....	Music reader.
Mr. Henry Hauenstein	Teacher of Work Department.
Miss Ruth C. Bartlett	" "
Miss Mary Wainwright.....	" "
Miss Ella McCarty	" "
Miss Olive M. Brown.....	Matron.
Miss Mattie McKibben	Assistant Matron.
Miss Annie Thompson.....	" "
Mrs. Catherine Armstrong	Housekeeper.
J. R. Flowers, M.D.....	Physician.

OHIO INSTITUTION FOR THE EDUCATION OF IMBECILE YOUTH.

BOARD OF TRUSTEES.

Name.	Residence.
John A. Shank	Cincinnati.
J. K. Rukenbrod	Salem.
James M. Montgomery	Columbus.

OFFICERS.

Name.	Residence.
Gustavus A. Doren, M.D., Superintendent	Columbus.
Miss Harriett F. Purple, Matron	"
Mrs. Sarah Lawrence, Assistant Matron	"
Miss Sarah Husted, Housekeeper	"
Mrs. N. L. Doren, Teacher	"
Miss M. E. Clift, "	"
Miss L. Lockwood, "	"
Miss L. A. Seymour, "	"
Miss F. Ruggles, "	"
Miss J. Bateham, "	"
Miss P. K. Ayres, "	"
Miss Mary Wickes, "	"
Miss Anna L. McGrew, "	"
Miss J. W. Ricks, "	"
Miss Anna M. Clark, "	"
Miss Ella G. Stocking, "	"
Miss M. D. Clark, "	"
Miss E. L. Clark, "	"
Miss E. V. Thompson, "	"
Miss J. H. Breckenridge, "	"
Miss J. Zurmehly, "	"
Miss F. E. Wright, "	"
Miss M. B. Minor, "	"

COLUMBUS ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
E. J. Blount, President	Columbus.
D. W. Brooks, Secretary	"
Geo. W. Morgan	Mt. Vernon.
Joseph P. Smith	Circleville.
Benj. Myers.....	Ashland.

OFFICERS.

Name.	Residence.
L. Firestone, M.D., Superintendent.....	Columbus.
M. A. Tobey, M.D., Assistant Physician.....	"
C. P. Galley, M.D., "	"
Thos. Sparrow, M.D., "	"
M. O. Firestone, M.D., "	"
Isaac Anderson, Steward	"
Mrs. L. Firestone, Matron	"

CLEVELAND ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
J. W. Fitch	Cleveland.
James Barnett	"
A. McGregor	Canton.
D. L. Wadsworth	Wellington.
J. F. Perry	Cuyahoga Falls.

OFFICERS.

Name.	Residence.
Jamin Strong, M.D., Superintendent.....	Cuyahoga county.
John S. Marshall, M.D., First Assistant.....	" "
James D. Maxwell, M.D., Second Assistant	" "
Jacob D. Sherrick, M.D., Third Assistant	" "
Charles W. Diehl, Steward.....	" "
Nettie L. Strong, Matron	" "

DAYTON ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
Thos. D. Stiles, M.D., President	Greenville.
L. G. Gould, Secretary	Eaton.
Job. E. Owens	Hamilton.
C. M. Godfrey	Ottawa.
Dr. H. Schoenfeldt	Miamisburgh.

OFFICERS.

Name.	Residence.
D. A. Morse, M.D., Superintendent	Montgomery Co.
John M. Carr, M.D., Assistant Physician	"
P. N. Adams, M.D., "	"
George Kramer, Steward	"
W. A. Stork, Storekeeper	"
Mrs. A. M. Morse, Matron	"

ATHENS ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
Isaac Stanley, President	Athens Co.
S. M. McMillan, Secretary	Marietta, Washington Co.
John Schreiner	Middleport, Meigs Co.
F. S. Pursell	Logan, Hocking Co.
A. Ball	Zanesville, Muskingum Co.

OFFICERS.

Name.	Residence.
P. H. Clarke, M.D., Superintendent	Athens County.
J. M. Hawley, M.D., First Assistant	"
J. W. Lash, M.D., Second Assistant	"
Robert Bell, Steward	"
J. R. Ledlie, Storekeeper	"

LONGVIEW ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
John C. Morris, President	Hamilton County.
Jas. F. Chalfant, Secretary	"
H. D. Peck	"
A. J. Mullane	"
B. Roth.....	"

OFFICERS.

Name.	Residence.
C. A. Miller, M.D., Superintendent	Longview Asylum.
John H. Samuel, M.D., Assistant Physician	"
F. F. Hellman, M.D., "	"
W. H. Rowe, Steward	"

OHIO SOLDIERS' AND SAILORS' ORPHANS' HOME.

BOARD OF TRUSTEES.

Name.	Residence.
B. Burns, President	Mansfield.
A. M. Stark, Secretary	Xenia.
John Kirkpatrick	Cambridge.
B. C. Blackburn	Roscoe.
A. M. Stimson	Washington C. H.

OFFICERS.

Name.	Office.
George Keifer, M.D.	Superintendent.
Miss Henrietta Keifer	Matron.
David M. Brelsford	Steward.
C. B. Jones	Physician.
M. J. Hartley	Principal.
Miss Orilla Bryant	Teacher.
" Dollie Coffman	"
" Kate Clabby	"
" De Etta Griner	"
" L. Hutchins	"
" J. T. Vandervier	"
" Helen M. Nave	"
Mrs. Alice M. Painter	"
Miss Mollie V. Swindler	"
" Georgia G. Sinks	"
" Marion Woodrow	"
Mrs. S. M. Cox	Teacher of telegraphy.
" Carrie Boughers	Cottage matron.
" Fannie Beall	" "
" Mary Burroughs	" "
" M. J. Coburn	" "
" Susan M. Connor	" "
" Anna M. Dunbar	" "
" G. D. Dietz	" "
" Lib Edwards	" "
" Mary Ewing	" "
" Martha Foos	" "
" Harriet N. Gordon	" "
" Amanda Harper	" "
" Julia M. Houston	" "
" Mary Smith	" "
Miss Margaret Jones	" "
" Carrie Lloyd	" "
" Isadora B. Lashley	" "
" Amanda Stokes	" "
" Kate Sparger	" "
" Elizabeth Ward	" "
Mrs. Ephraim Hardesty	Hospital matron.
" Asa Keifer	House-keeper.

GIRLS' INDUSTRIAL HOME.

TRUSTEES.

Name.	Residence.
F. H. Thornhill, President	Richwood.
J. W. Watkins, Secretary	Delaware.
T. D. West	Sandusky.
H. R. Kelley	Galion.
R. R. Henderson	Delaware.

OFFICERS, TEACHERS, Etc.

Name.	Office.
R. Hills, M.D.	Superintendent.
Mrs. E. G. Hills	Matron.
Miss Millie D. Hackinson	Clerk.
“ M. E. Singer	Assistant Matron.
“ S. A. Humphrey	“ “
“ M. A. Gotham	“ “
“ Belle McCormick	“ “
“ V. H. Crary	“ “
“ Elvira Way	“ “
Mrs. H. C. Eastman	“ “
“ E. M. Davis (Relief)	“ “
Miss Mary L. Clark	Teacher.
“ Jennie Francis	“
“ Hattie Dunbar	“
Mrs. E. Edgerton	“
Miss Emma McCormick	“
“ Josephine Cowgill	“

OHIO REFORM SCHOOL.

BOARD OF TRUSTEES.

Name.	Residence.
Jno. M. Pugh	Columbus.
Rev. B. W. Chidlaw	Cleves.
Chas. Mams	Belle Center.
Jacob Cherryholmes	Millersburg.
Henry J. Reinmund	Lancaster.

OFFICERS.'

Name.	Office.	Residence.
John C. Hite	Superintendent	Lancaster.
Mrs. M. Hite	Matron	"
James H. Berry	Secretary	Cincinnati.

TOLEDO HOUSE OF REFUGE AND CORRECTION.*

BOARD OF TRUSTEES.

Name.	Residence.
A. G. Clark, President	Toledo.
F. B. Shoemaker, Treasurer	"
N. A. Marsh, Secretary	"
C. A. Kirkley	"
A. H. Newcomb	"

OFFICERS.

Name.	Office.	Residence.
Charles Douglass	Superintendent	Toledo.
John C. Kirkley	Deputy Superintendent...	"
W. K. Mandeville	Teacher	"
Mrs. A. E. Douglass	Matron	
Miss Abbie M. Cogswell	Teacher	

*Not under State control.

OHIO PENITENTIARY.

BOARD OF TRUSTEES.

Name.	Residence.
A. D. Heffner, President	Columbus.
Charles Roose	Oak Harbor.
Isaac G. Peetrey	London.
Charles W. Boyd	Levanna.
Daniel McConville, Jr	Steubenville.

OFFICERS.

Name.	Office.	Residence.
James B. McWhorter	Warden	McWhorter P.O.
Joseph Quinn	Deputy Warden.....	Columbus.
James L. Andrews	Steward	"
S. L. Reeves.....	Clerk.....	Lancaster.
George Maul.....	Assistant Clerk	Sandusky.
John Burns, LL.D	Chaplain	Cambridge.
W. H. Drury	Physician.....	Columbus.

OFFICERS OF COURTS.

SUPREME COURT.

Name.	Office.	Residence.	Term of office.	Term expires.
Hon. William White* ..	Chief Justice	Springfield	5 years	Feb. 9, 1879.
Hon. W. J. Gilmore	Judge	Eaton	"	" 9, 1880.
Hon. Geo. W. McIlvaine.	"	New Philadelphia..	"	" 9, 1881.
Hon. W. W. Boynton ..	"	Elyria	"	" 9, 1882.
Hon. Jno. W. Okey	"	Columbus	"	" 9, 1883.
Richard J. Fanning	Clerk	"	3 "	" 6, 1881.
M. A. Fanning	Deputy Clerk	"	"	" 6, 1881.

SUPREME COURT COMMISSION.

Name.	Office.	Residence.	Term of office.	Term expires.
Hon. W. W. Johnson ...	Chief Judge	Ironton	3 years	Feb. 1, 1879.
Hon. Josiah Scott	Judge	Bucyrus	"	"
Hon. Luther Day	"	Ravenna	"	"
Hon. D. Thew Wright..	"	Cincinnati	"	"
Hon. T. Q. Ashburn	"	Batavia	"	"
Richard J. Fanning	Clerk <i>ex officio</i>	Columbus .....	.....	"
Fred. Green	Deputy Clerk	Cleveland .....	.....	"
E. L. De Witt	Reporter .....	.....	.....

COMMISSION TO REVISE AND CONSOLIDATE THE STATUTES.

Name.	Office.	Residence.
M. A. Daugherty	Commissioner	Columbus
John S. Brasee	"	Lancaster
Geo. B. Okey	"	Cincinnati
E. T. Hall	Clerk	Columbus
Amos Layman	"	"
T. W. Okey	"	Cincinnati
E. B. Yarnell	"	"
D. R. Jones	"	Granville

*Re-elected. Term of office commences February 9, 1879, and expires February 9, 1884.

UNITED STATES CIRCUIT COURT, NORTHERN OHIO. HELD AT CLEVELAND AND TOLEDO.

Name.		Residence.	Term of office.
Hon. Noah H. Swayne..	Justice Sup. Co	Washington, D.C.	Life.
" John Baxter.....	or		
" Martin Welker....	Six	Knoxville, Tenn	"
Augustus J. Ricks, Esq.	District Judge	Wooster	"
Edward W. Page.....	Clerk	Massillon	At pleasure of Court.
Omar T. Case	Deputy Clerk.....	Cleveland	Appointed by Clerk.
John C. Lee, Esq	"	Toledo	"
Edward S. Meyer	District Attorney ..	"	4 yrs. from Mar. 1877.
Noyes B. Prentice	Asst. Dist. Attorney.	Cleveland	"
S. W. Smead	Marshal	"	4 yrs. from Feb. 1876.
John Odell.....	Deputy Marshal ...	"	Appointed by Marshal.
Henry Saunders.....	"	"	"
George Tyler	Crier	"	Appointed by Court.
	Bailiff	"	"

UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF OHIO.

Name.	Office.	Residence.	Term of office.
Noah H. Swayne	Justice Supreme Court.	Washington, D. C.	Life.
John Baxter	Circuit Judge.....	Knoxville, Tenn.	"
Martin Welker	District Judge.....	Wooster	"
John C. Lee	District Attorney	Toledo	Four years.
Earl Bill	Clerk	Cleveland	Good behavior.
Noyes B. Prentice	Marshal	"	Four years.
Henry Saunders	Crier	"	Good behavior.
Charles H. Bill	Deputy Clerk.....	"	"
George Wyman	"	"	"
Omar T. Case	"	Toledo	"

The time of holding the Courts of the United States, fixed by law, are as follows :
The Circuit and District Courts for the Northern district of Ohio are held at Cleveland the first Tuesdays of January, April, and October.
The District Court is held at Toledo the second Tuesdays of June and December.

UNITED STATES CIRCUIT COURT FOR THE SOUTHERN DISTRICT OF OHIO,
HELD AT CINCINNATI.

Name.	Office.	Residence.	Term of office.
Noah H. Swayne	Justice Supreme Court .	Washington D. C ..	Life.
John Baxter	Circuit Judge	Knoxville, Tenn ...	"
Philip B. Swing	District Judge	Batavia	"
Thomas Ambrose	Clerk	Cincinnati	
Channing Richards	District Attorney	Glendale	Four years.
William R. Thrall	Marshal	Clifton	"

UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF OHIO,
HELD AT CINCINNATI.

Name.	Office.	Residence.	Term of office.
Philip B. Swing	District Judge	Batavia	Life.
Thomas Ambrose	Clerk	Cincinnati	
Channing Richards	District Attorney	Glendale	Four years.
William R. Thrall	Marshal	Clifton	"

SIXTY-THIRD GENERAL ASSEMBLY—1878-79.

SENATE.

Districts.	Names.	Counties.	Post-Office.	Occupation.
1	Armstrong, James M.....	Hamilton	Cincinnati	Merchant.
26	Beebe, David Duncan.....	Portage and Summit.....	Hudson	Merchant and Banker.
27	Beer, Thomas M.....	Medina, Lorain, Ashland, and Richland.....	Ashland	Merchant.
28	Benson, John H	Knox, Morrow, Wayne, and Holmes	Cardington.....	Farmer.
9	Carliale, Basil W	Athens, Hooking, and Fairfield	Hooker Station	Farmer.
12	Carson, J. M.....	Miami, Darke, and Shelby	Anna	Farmer.
25	Curtiss, Harvey W.....	Cuyahoga	Chagrin Falls	Physician.
7	Dungan, Irvine.....	Adams, Pike, Scioto, and Jackson	Jackson C. H.....	Attorney.
18	Fisher, John C.....	Coshocton and Tuscarawas.....	Coshocton	Printer and Publisher.
1	Forrest, William T.....	Hamilton.....	Cincinnati	Attorney.
3	Grove, George A	Montgomery and Preble.....	Miamisburg	General Business.
24	Howland, W. P	Ashtabula, Lake, and Geauga.....	Jefferson	Attorney.
14	Irvine, John.....	Washington, Morgan, and part of Noble.....	Harmar	Attorney.
15	Jackson, Lyman J.....	Muskingum and Perry	New Lexington.....	Attorney.
5	Jackson, Thomas S.....	Greene, Clinton, and Fayette	Westboro'	Farmer.
23	Johnston, Joseph B	Mahoning and Trumbull	Canfield	Attorney.
33	Joy, David	Fulton, Hancock, Henry, Lucas, Putnam, and Wood.....	Findlay	Hotel Keeper.
8	Kelley, Lindsey.....	Lawrence, Gallia, Meigs, and Vinton	Ironton	Iron Manufacturer.
10	Krimmel, Charles F.....	Franklin and Pickaway.....	Circleville	Attorney.
1	Lord, Henry C	Hamilton.....	Riverside.....	Attorney.
1	Marsh, Theodore.....	Hamilton.....	Hartwell	Druggist.
6	McDonald, John C.....	Highland and Ross	Lattasville	Farmer.
16	Owens, James W	Delaware and Licking	Newark	Attorney.
30	Parker, C. S.....	Huron, Erie, Sandusky, and Ottawa.....	Norwalk	Merchant.
22	Richards, Rees G	Jefferson and Columbiana.....	Stenbenville.....	Attorney.

13	Sabin, Hylas	Logan, Union, Marlon, and Hardin.....	Richwood	Real Estate Dealer.
32	Saltzgeber, Gaylord M	Allen, Anglaise, Defiance, Mercer, Paulding, Van Wert, and Williams.....	Van Wert	Attorney.
31	Seitz, John	Seneca, Crawford, and Wyandot.....	Tiffin	Farmer.
21	Sherrick, Johnson	Carroll and Stark.....	Canton	Merchant.
33	Steedman, James B.....	Fulton, Hancock, Henry, Lucas, Putnam, and Wood	Toledo	Editor.
2	Stokes, William H.....	Butler and Warren.....	Waynesville	Farmer.
4	Tyler, George P.....	Clermont and Brown.....	Russellville.....	Manufacturer.
20	Wagner, David	Belmont and Harrison	Bridgeport	Manufacturer.
19	Williams, Joseph B	Guernsey, Monroe, and part of Noble	Summerfeld.....	Farmer and Physician.
11	Wilson, George W	Clarke, Champaign and Madison	London	Attorney.

SIXTY-THIRD GENERAL ASSEMBLY—Continued.

HOUSE OF REPRESENTATIVES

Names.	Counties.	Post-office.	Occupation.
Achauer, Herman F	Muskingum	Zanesville	Attorney.
Alexander, Ross J	Belmont	Bridgeport	Attorney.
Baker, Michael L	Allen	South Warsaw	Farmer.
Bloom, Samuel S	Richland	Shelby	Att'y and Editor.
Bohl, Henry	Washington	Marietta	Ins. & R'l Ea. Agt.
Booth, Henry J	Franklin	Columbus	Attorney.
Boyce, David	Columbiana	East Liverpool	Banker and man'f.
Brown, Lloyd S	Hamilton	Reading	Farmer.
Brown, David I	Putnam	Ottawa	Attorney.
Bull, John W	Ashland	Londonville	Farmer.
Carpenter, Jeremiah L	Meigs	Lee P. O., Athens co.	Farmer.
Carter, F. M	Williams	Bryan	Druggist.
Clough, Horace P	Butler	Middletown	Contractor.
Conkright, W. H	Union	Richwood	Banker.
Covert, John C	Cuyahoga	Cleveland	Editor.
Cowgill, Thomas A	Champaign	Kennard	Farmer.
Crosley, Daniel	Montgomery	Centreville	Farmer.
Crosson, James	Clermont	Edenton	Farmer.
Creamer, Michael S	Fayette	Washington C. H	Attorney.
Dalzell, James M	Noble	Caldwell	Attorney.
Danford, Harvey	Belmont	Pilcher	Farmer.
Dawson, H. C	Highland	Dodsonville	Farmer.
Dempcy, Marshall L	Cuyahoga	Warrensville	Farmer.
Dodds, Milo G	Hamilton	Cincinnati	Insurance Agent.
Douglass, James	Erie	Ceylon	Farmer.
Dow, Duncan	Logan	Bellefontaine	Attorney.
Dunham, A	Sandusky	Woodville	Farmer.
Edwards, David J	Trumbull	Hubbard	Merchant.
Elliott, David H	Delaware	Sunbury	Farmer.
Ellis, Lorenzo	Ottawa	Elliston	Merchant.
Estill, James A	Holmes	Millersburg	Editor.
Eylar, Joseph W	Adams	West Union	Editor.
Fenton, John	Fulton	Al	Farmer.
Forsythe, Jesse	Harrison	Tippecanoe	Farmer.
Foster, George H	Cuyahoga	Cleveland	Attorney.
Greene, John W	Greene	Fairfield	Physician.
Groschner, Herman C	Henry	Napoleon	Merchant.
Guthery, John D	Marion	La Rue	Farmer.
Haley, John	Hardin	Kenton	Farmer.
Hardy, John	Coshocton	Oxford Station	Farmer.
Hardy, Henry	Defiance and Paulding	Defiance	Attorney.
Harmon, Charles R	Portage	Aurora	Merchant.
Hart, Abel	Knox	Mt. Vernon	Attorney.
Hayman, Richard H	Scioto	Portsmouth	Farmer.
Hendrick, Henry H	Montgomery	Dayton	Brass Finisher.
Herrick, Lucius	Lorain	Wellington	Farmer.
Hitchcock, Peter	Geauga	Burton	Farmer.
Hostetter, S. A	Darke	Ansonia	Druggist.
Hume, Hubbard	Shelby	Sidney	Farmer.
Jessup, William	Hamilton	Cleves	Farmer.
Johnson, William	Tuscarawas	Uhrichsville	Attorney.
Kellogg, Harvey	Lucas	Toledo	Farmer.
Kerr, Samuel C	Columbiana	Salineville	Farmer.
Klimper, Fred	Hamilton	Cincinnati	Merchant.
Leggett, Thomas	Carroll	Leesville	Farmer.
Levering, Allen	Morrow	Mt. Gilead	Banker.
Loder, William	Hamilton	Cincinnati	Merchant.
Lovelace, Benjamin F	"	"	Shoemaker.
Luccock, Thomas S	Guernsey	Kimbolton	Merchant.
Mack, Hiram H	Summit	Bath	Farmer.
Mackey, Robert	Mahoning	Youngstown	Farmer.

SIXTY-THIRD GENERAL ASSEMBLY—Continued.

HOUSE OF REPRESENTATIVES.

Names.	Counties.	Post-office.	Occupation.
McCoy, Charles W	Lawrence	Sheridan Coal Works	Farmer.
McCoy, Thomas A	Wayne	Wooster	Farmer.
Marsh, Archelans D	Mercer	Celina	Attorney.
Maury, Henry	Monroe	Clarington	Teacher.
Meuser, Jacob G	Crawford	Galion	Attorney.
Monahan, Arthur B (a) ..	Jackson	Jackson C. H	Physician.
Morrey, John C	Morgan ..	Chester Hill	Merchant.
Neal, James E	Butler	Hamilton	Attorney.
Norton, James A	Seneca	Bettsville	Physician.
Oglevee, John F	Clarke	Springfield	Attorney.
Paine, James B (b)	Jackson	Jackson C. H	Attorney.
Palmer, L. A	Cuyahoga	Rockport	Farmer.
Parker, Eli B	Brown	Mt. Orab	Attorney.
Perkins, E. S	Medina	Weymouth	Farmer.
Poe, Joseph M	Cuyahoga	Brooklyn	Attorney.
Quinby, Isaiah W	Clinton	Wilmington	Attorney.
Quinn, Homer S	Madison	West Jefferson	Physician.
Reed, William H	Ross	Chillicothe	Lumber Merchant.
Reed, Edmund A	Trumbull	Vernon	Farmer.
Rimer, James W	Van Wert	Van Wert	Surveyor.
Sage, Edwin R	Wood	Prairie Depot	Physician.
Sawyer, Lewis C	Auglaize	St. Mary's	Attorney.
Scott, Thomas B	Jefferson	Mingo	Farmer.
Seifert, Abraham	Fairfield	North Berne	Farmer.
Sextro, Joseph G	Hamilton	Carthage	Manufacturer.
Sheets, Henry	Hancock	Arcadia	Farmer.
Smead, James P	Lake	Madison	Farmer.
Smith, Gilbert	Washington	Barlow	Farmer.
Stubbs, D. C	Preble	West Elkton	Farmer.
Sturgeon, David B	Lucas	Toledo	Physician.
Sullivan, John	Hamilton	California	
Sullivan, Samuel	Miami	Tadmor	Farmer.
Swaim, Andrew J	Vinton	McArthur	Stock Dealer.
Thorp, Freeman	Ashtabula	Geneva	Artist.
Townsend, Charles	Athens	Athens	Attorney.
Trovinger, Curtis	Perry	Thornville	Farmer.
Turner, James (c)	Montgomery	Dayton	
Tyler, Joel L	Licking	Alexandria	Farmer.
Tyler, Willard D	Wyandot	Upper Sandusky	Attorney.
Van Cleaf, Aaron R	Pickaway	Circleville	Editor.
Wales, Thomas M	Warren	Harveysburg	Farmer.
Washburn, John W	Pike	Waverly	Attorney.
Wasson, S. Y	Gallia	Gallipolis	Merchant.
White, Clark	Franklin	Columbus	Farmer.
Williams, Richard G	Stark	Alliance	Druggist.
Williamson, John A	Huron	Norwalk	Attorney.
Wolf, Salem S	Hocking	South Perry	Farmer.
Worley, Daniel	Stark	Canton	Teacher.
Wright, Irvin B	Hamilton	Cincinnati	Attorney.

(a) Died January 20, 1878. (b) Elected to fill vacancy. (c) Vice O'Connor, expelled.

SIXTY-THIRD GENERAL ASSEMBLY—Continued.

HOUSE OF REPRESENTATIVES

Names.	Counties.	Post-office.	Occupation.
Achauer, Herman F	Muskingum	Zanesville	Attorney.
Alexander, Ross J	Belmont	Bridgeport	Attorney.
Baker, Michael L.	Allen	South Warsaw	Farmer.
Bloom, Samuel S.	Richland	Shelby	Att'y and Editor.
Bohl, Henry	Washington	Marietta	Ins. & R'l Es. Agt.
Booth, Henry J	Franklin	Columbus	Attorney.
Boyce, David	Columbiana	East Liverpool	Banker and man'f.
Brown, Lloyd S	Hamilton	Reading	Farmer.
Brown, David I	Putnam	Ottawa	Attorney.
Bull, John W	Ashland	Loudonville	Farmer.
Carpenter, Jeremiah L ..	Meigs	Lee P. O., Athens co.	Farmer.
Carter, F. M	Williams	Bryan	Druggist.
Clough, Horace P	Butler	Middletown	Contractor.
Conkright, W. H	Union	Richwood	Banker.
Covert, John C	Cuyahoga	Cleveland	Editor.
Cowgill, Thomas A.	Champaign	Kennard	Farmer.
Crosley, Daniel	Montgomery	Centreville	Farmer.
Crosson, James	Clermont	Edenton	Farmer.
Creamer, Michael S	Fayette	Washington C. H ..	Attorney.
Dalzell, James M.	Noble	Caldwell	Attorney.
Danford, Harvey	Belmont	Pilcher	Farmer.
Dawson, H. C.	Highland	Dodsonville	Farmer.
Dempsey, Marshall L.	Cuyahoga	Warrensville	Farmer.
Dodds, Milo G	Hamilton	Cincinnati	Insurance Agent.
Douglass, James	Erie	Ceylon	Farmer.
Dow, Duncan	Logan	Bellefontaine	Attorney.
Dunham, A	Sandusky	Woodville	Farmer.
Edwards, David J.	Trumbull	Hubbard	Merchant.
Elliott, David H	Delaware	Sunbury	Farmer.
Ellis, Lorenzo	Ottawa	Elliston	Merchant.
Estill, James A	Holmes	Millersburg	Editor.
Eylar, Joseph W	Adams	West Union	Editor.
Fenton, John	Fulton	Al	Farmer.
Forsythe, Jesse	Harrison	Tippecanoe	Farmer.
Foster, George H.	Cuyahoga	Cleveland	Attorney.
Greene, John W.	Greene	Fairfield	Physician.
Groschner, Herman C ..	Henry	Napoleon	Merchant.
Guthery, John D.	Marion	La Rue	Farmer.
Haley, John	Hardin	Kenton	Farmer.
Hardy, John	Coshocton	Oxford Station	Farmer.
Hardy, Henry	Defiance and Paulding	Defiance	Attorney.
Harmon, Charles R.	Portage	Aurora	Merchant.
Hart, Abel	Knox	Mt. Vernon	Attorney.
Hayman, Richard H	Scioto	Portsmouth	Farmer.
Hendrick, Henry H	Montgomery	Dayton	Brass Finisher.
Herrick, Lucius	Lorain	Wellington	Farmer.
Hitchcock, Peter	Geauga	Burton	Farmer.
Hostetter, S. A	Darke	Ansonia	Druggist.
Hume, Hubbard	Shelby	Sidney	Farmer.
Jessup, William	Hamilton	Cleves	Farmer.
Johnson, William	Tuscarawas	Uhrichsville	Attorney.
Kellogg, Harvey	Lucas	Toledo	Farmer.
Kerr, Samuel C	Columbiana	Salineville	Farmer.
Klimper, Fred	Hamilton	Cincinnati	Merchant.
Leggett, Thomas	Carroll	Leesville	Farmer.
Levering, Allen	Morrow	Mt. Gilead	Banker.
Loder, William	Hamilton	Cincinnati	Merchant.
Lovelace, Benjamin F ..	"	"	Shoemaker.
Luccock, Thomas S	Guernsey	Kimbolton	Merchant.
Mack, Hiram H	Summit	Bath	Farmer.
Mackey, Robert	Mahoning	Youngstown	Farmer.

SIXTY-THIRD GENERAL ASSEMBLY—Continued.

HOUSE OF REPRESENTATIVES.

Names.	Counties.	Post-office.	Occupation.
McCoy, Charles W	Lawrence	Sheridan Coal Works	Farmer.
McCoy, Thomas A	Wayne	Wooster	Farmer.
Marsh, Archelaus D	Mercer	Celina	Attorney.
Maury, Henry	Monroe	Clarington	Teacher.
Menser, Jacob G	Crawford	Galion	Attorney.
Monahan, Arthur B (a) ..	Jackson	Jackson C. H	Physician.
Morrey, John C	Morgan ..	Chester Hill	Merchant.
Neal, James E	Butler	Hamilton	Attorney.
Norton, James A	Seneca	Bettsville	Physician.
Oglevee, John F	Clarke	Springfield	Attorney.
Paine, James B (b)	Jackson	Jackson C. H	Attorney.
Palmer, L. A	Cuyahoga	Rockport	Farmer.
Parker, Eli B	Brown	Mt. Orab	Attorney.
Perkins, E. S	Medina	Weymouth	Farmer.
Poe, Joseph M	Cuyahoga	Brooklyn	Attorney.
Quinby, Isaiah W	Clinton	Wilmington	Attorney.
Quinn, Homer S	Madison	West Jefferson	Physician.
Reed, William H	Ross	Chillicothe	Lumber Merchant.
Reed, Edmund A	Trumbull	Vernon	Farmer.
Rimer, James W	Van Wert	Van Wert	Surveyor.
Sage, Edwin R	Wood	Prairie Depot	Physician.
Sawyer, Lewis C	Anglaize	St. Mary's	Attorney.
Scott, Thomas B	Jefferson	Mingo	Farmer.
Seifert, Abraham	Fairfield	North Berne	Farmer.
Sextro, Joseph G	Hamilton	Carthage	Manufacturer.
Sheets, Henry	Hancock	Arcadia	Farmer.
Smead, James P	Lake	Madison	Farmer.
Smith, Gilbert	Washington	Barlow	Farmer.
Stubbs, D. C	Preble	West Elkton	Farmer.
Sturgeon, David B	Lucas	Toledo	Physician.
Sullivan, John	Hamilton	California	
Sullivan, Samuel	Miami	Tadmor	Farmer.
Swaim, Andrew J	Vinton	McArthur	Stock Dealer.
Thorp, Freeman	Ashtabula	Geneva	Artist.
Townsend, Charles	Athens	Athens	Attorney.
Trovinger, Curtis	Perry	Thornville	Farmer.
Turner, James (c)	Montgomery	Dayton	
Tyler, Joel L	Licking	Alexandria	Farmer.
Tyler, Willard D	Wyandot	Upper Sandusky ...	Attorney.
Van Cleaf, Aaron R	Pickaway	Circleville	Editor.
Wales, Thomas M	Warren	Harveysburg	Farmer.
Washburn, John W	Pike	Waverly	Attorney.
Wasson, S. Y	Gallia	Gallipolis	Merchant.
White, Clark	Franklin	Columbus	Farmer.
Williams, Richard G ...	Stark	Alliance	Druggist.
Williamson, John A	Huron	Norwalk	Attorney.
Wolf, Salem S	Hocking	South Perry	Farmer.
Worley, Daniel	Stark	Canton	Teacher.
Wright, Irvin B	Hamilton	Cincinnati	Attorney.

(a) Died January 20, 1878. (b) Elected to fill vacancy. (c) Vice O'Connor, expelled.

JUDGES OF THE COURT OF COMMON PLEAS—1878-1879.

District.	Sub-div.	Counties.	Names and post-offices.	Term.	
				Commenced.	Expires.
1	{	Hamilton	Fayette Smith, Cincinnati	Dec. 2, 1878	Dec. 2, 1883
			Fred. W. Moore, "	Dec. 2, 1878	Dec. 2, 1883
			William L. Avery, "	Feb. 12, 1877	Feb. 12, 1882
			Joseph Cox, "	Feb. 12, 1877	Feb. 12, 1882
			Nicholas Longworth, "	Feb. 12, 1877	Feb. 12, 1882
			Robert A. Johnston, "	Nov. 6, 1876	Nov. 6, 1881
			Jacob Burnet, "	Nov. 6, 1876	Nov. 6, 1881
2	{	Butler	Alex. F. Hume, Hamilton	Feb. 12, 1877	Feb. 12, 1882
		Preble	Henderson Elliott, Dayton	Nov. 6, 1876	Nov. 6, 1881
		Montgomery	David L. Meeker, Greenville* ..	May 11, 1873	May 13, 1878
2	{	Champaign	Henry H. Williams, Troy†	Dec. 3, 1877	Dec. 3, 1882
		Miami			
2	{	Warren	James M. Smith, Lebanon	Feb. 12, 1877	Feb. 12, 1882
		Clinton	Azariah W. Doan, Wilmington ..	April 12, 1875	April 12, 1880
		Greene	Moses Barlow, Xenia	Feb. 9, 1874	Feb. 9, 1879
		Clarke	James S. Gouda, Springfield ..	April 12, 1875	April 12, 1880
			James E. Hawes, Xenia	Feb. 9, 1879	Feb. 9, 1884
3	{	Logan			
		Union	John L. Porter, Marysville	Feb. 12, 1877	Feb. 12, 1882
		Hardin			
3	{	Shelby			
		Auglaize	Edward M. Phelps, St. Mary's ..	May 10, 1874	May 10, 1879
		Allen	James McKenzie, Lima	Feb. 9, 1874	Feb. 9, 1879
		Mercer	Charles M. Hughes, Lima	Feb. 9, 1879	Feb. 9, 1884
		Van Wert	John J. Moore, Ottawa	May 10, 1879	May 10, 1884
3	{	Putnam			
		Paulding			
		Defiance			
		Williams	Belwyn N. Owen, Bryan	Feb. 12, 1877	Feb. 12, 1882
		Fulton			
3	{	Henry			
		Seneca			
		Hancock	Henry H. Dodge, Perrysburgh ..	Feb. 1, 1878	Feb. 1, 1883
		Wyandot	James Pillars, Tiffin	May 4, 1873	May 4, 1878
		Crawford	Thomas Beer, Bucyrus	Feb. 12, 1877	Feb. 12, 1882
4	{	Marion			
		Wood			
		Lucas	Wm. F. Lockwood, Toledo	Nov. 11, 1878	Nov. 11, 1883
		Ottawa	Thomas P. Finefrock, Fremont ..	Oct. 24, 1874	Oct. 24, 1879
		Sandusky	Reuben C. Lemmon, Toledo	Oct. 24, 1874	Feb. 9, 1880
4	{	Erie	Cooper K. Watson, Sandusky ..	Feb. 12, 1877	Feb. 12, 1882
		Huron	Birdseye W. Rouse, Toledo	May —, 1874	May —, 1881
		Lorain			
		Medina	Newell D. Tibballs, Akron	May 1, 1876	May 1, 1881
		Summit	John C. Hale, Elyria	Feb. 12, 1877	Feb. 12, 1882
4	{		Darius Cadwell, Cleveland* ..	Feb. 9, 1874	Feb. 9, 1879
			Jessie H. McMath, "	Nov. 1, 1875	Nov. 1, 1880
			James M. Jones, "	Nov. 1, 1875	Nov. 1, 1880
			Edwin T. Hamilton, "	Nov. 1, 1875	Nov. 1, 1880
			Gershom M. Barber, "	Nov. 1, 1875	Nov. 1, 1880
5	{	Cuyahoga	Samuel B. Prentiss, "	Feb. 12, 1877	Feb. 12, 1882
		Clermont			
		Brown	Allen T. Cowen, Batavia	Feb. —, 1878	Feb. —, 1883
		Adams	David Tarbill, Georgetown	Feb. 12, 1877	Feb. 12, 1882

*Re-elected October, 1878.

† Elected to fill vacancy caused by death of George D. Burgees.

COMMON PLEAS JUDGES—Continued.

District.	Sub-div.	Counties.	Names and post-offices.	Term.	
				Commenced.	Expires.
5	2	Ross	Thad. A. Minshall, Chillicothe †	Oct. —, 1876	Feb. 12, 1879
		Highland	Samuel F. Steel, Hillsborough.	Feb. 12, 1877	Feb. 12, 1882
		Fayette			
5	3	Franklin	Ed. F. Bingham, Columbus ...	May 11, 1878	May 11, 1883
			John L. Green, " ...	Feb. 12, 1877	Feb. 12, 1882
			Eli P. Evans, " ...	May —, 1878	May —, 1883
5	4	Pickaway	S. W. Courtright, Circleville ..	May 10, 1875	May 10, 1880
		Madison			
6	1	Licking	Samuel M. Hunter, Newark....	Feb. 12, 1877	Feb. 12, 1882
		Knox	John Adams, Mt. Vernon.....	Feb. 12, 1877	Feb. 12, 1882
		Delaware ...			
6	2	Morrow	Moses R. Dickey, Mansfield ...	Feb. 12, 1877	Feb. 12, 1882
		Richland	Thomas J. Kenney, Ashland†..	Sept. 10, 1874	Feb. 10, 1879
		Ashland			
6	3	Wayne	Chas. C. Parsons, Sr., Wooster.	Feb. 12, 1877	Feb. 12, 1882
		Holmes	C. F. Voorhees, Millersburg....	Feb. 12, 1878	Feb. 12, 1883
		Coshocton ...			
7	1	Fairfield			
		Perry	Silas H. Wright, Lancaster....	Feb. 12, 1877	Feb. 12, 1882
		Hocking			
7	2	Jackson	Porter Du Hadway, Jackson ..	Feb. 9, 1874	Feb. 9, 1879
		Vinton	J. J. Harper, Portsmouth.....	Feb. 12, 1877	Feb. 12, 1882
		Pike	James Tripp, Jackson C H	Feb. 9, 1879	Feb. 9, 1884
7	3	Scioto			
		Lawrence			
		Gallia			
7	3	Meigs	Samuel S. Knowles, Marietta ..	Feb. 12, 1878	Feb. 12, 1883
		Athens	Jos. P. Bradbury, Pomeroy	Feb. 12, 1877	Feb. 12, 1882
		Washington ..			
8	1	Muskingum ..	William H. Frazier, Caldwell..	Feb. 12, 1877	Feb. 12, 1882
		Morgan	Lucius P. Marsh, Zanesville...	Aug. 3, 1874	Aug. 3, 1879
		Noble	Wm. H. Ball, " ...	Aug. 3, 1879	Aug. 3, 1884
8	2	Guernsey			
		Belmont.....	William Okey, Woodsfield	Feb. 12, 1877	Feb. 12, 1882
		Monroe			
8	3	Jefferson			
		Harrison	J. Patrick, Jr. N. Philadelphia	Feb. 12, 1877	Feb. 12, 1882
		Tuscarawas ..			
9	1	Stark	Seraphim Meyer, Canton	Feb. 12, 1877	Feb. 12, 1882
		Trumbull	Philo B. Conant, Ravenna.....	Oct. 31, 1873	Oct. 31, 1878
		Portage	Ezra B. Taylor, Warren.....	Feb. 12, 1878	Feb. 12, 1883
9	2	Mahoning	William T. Spear, Warren.....	Oct. 31, 1878	Oct. 31, 1883
		Geauga			
		Lake	Laban S. Sherman, Ashtabula.	Feb. 12, 1877	Feb. 12, 1882
9	3	Ashtabula ...	H. B. Woodbury, Jefferson	Jan. 25, 1876	Jan. 25, 1881
		Carroll			
		Columbiana ..	Peter A. Laubie, Salem	Nov. 1, 1875	Nov. 1, 1880

† Re-elected October, 1878.

TIMES OF HOLDING COURTS IN OHIO IN 1879.

FIRST DISTRICT.

District Court.

Hamilton, January 6, April 7, October 6.

Common Pleas.

Hamilton, January 6, May 5, October 6.

SECOND DISTRICT.

District Court.

Butler, March 31; Clinton, April 14; Warren, May 12; Champaign, May 5; Montgomery, April 21; Clarke, March 31; Greene, April 7; Darke, April 21; Preble, April 28; Miami, May 19.

Common Pleas.

Butler, January 13, May 19, October 20.

Montgomery, January 6, May 19, October 20.

Darke, January 13, May 12, October 20.

Clinton, January 6, May 12, October 20.

Warren, January 13, June 2, October 27.

Clarke, January 13, May 26, October 20.

Greene, January 13, May 26, October 20.

Champaign, January 13, May 12, October 20.

Miami, February 17, June 2, November 17.

Preble, March 3, June 9, December 1.

THIRD DISTRICT.

District Court.

Allen, April 10; Anglaize, March 31; Crawford, July 10; Defiance, June 18; Fulton, June 24; Hardin, March 25; Hancock, June 13; Henry, June 21; Logan, March 18; Marion, July 15; Mercer, April 1; Paulding, June 16; Putnam, April 3; Seneca, June 10; Shelby, March 28; Union, March 11; Van Wert, April 7; Williams, June 25; Wood, June 28; Wyandot, July 8.

Common Pleas.

Allen, January 6, March 31, September 29.

Anglaize, January 13, April 7, September 8.

Crawford, January 7, April 21, September 9.

Defiance, January 13; May 12, September 29.

Fulton, February 10, June 9, October 27.

Hardin, January 7, April 1, October 7.

Hancock, January 7, April 21, September 9.
 Henry, January 27, May 26, October 15.
 Logan, February 25, May 13, November 4.
 Marion, February 18, June 9, October 28.
 Mercer, March 17, May 5, December 1.
 Paulding, January 7, May 6, September 23.
 Putnam, February 10, April 28, September 8.
 Seneca, February 3, May 12, October 8.
 Shelby, March 3, May 19, October 6.
 Union, February 3, April 21, September 8.
 Van Wert, February 17, April 21, November 16.
 Williams, February 24, June 18, November 16.
 Wood, February 24, June 9, November 4.
 Wyandot, January 28, May 19, October 8.

FOURTH DISTRICT.

District Court.

Erie, April 14 ; Huron, April 4 ; Lucas, March 17 ; Sandusky, April 24 ; Ottawa, April 28 ; Lorain, March 31 ; Medina, March 27 ; Summit, March 17 ; Cuyahoga, March 17, September 1.

Common Pleas.

Erie, January 27, May 26, October 27.
 Huron, February 3, May 26, November 24.
 Lucas, January 2, April 28, September 15.
 Sandusky, January 6, March 3, October 20.
 Ottawa, January 6, May 5, October 6.
 Lorain, January 27, May 26, October 27.
 Medina, January 6, May 5, September 22.
 Summit, January 13, May 12, September 22.
 Cuyahoga, January 6, March 3, May 5, September 1, November 3.

FIFTH DISTRICT.

District Court.

Madison, March 25 ; Fayette, April 23 ; Clermont, September 16 ; Franklin, March 29, October 15 ; Adams, September 2 ; Highland, September 22 ; Pickaway, April 21 ; Brown, September 5 ; Ross, September 27.

Common Pleas.

Adams, January 7, May 6, September 9.
 Clermont, January 28, May 27, October 21.
 Brown, January 28, May 27, October 21.
 Highland, January 7, May 6, October 21.
 Ross, January 7, May 6, October 21.
 Fayette, February 11, June 3, November 18.
 Franklin, January 13, April 14, September 16.
 Madison, January 7, May 6, October 21.
 Pickaway, February 4, June 3, November 18.

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SIXTH DISTRICT.

District Court.

Delaware, June 30; Knox, July 7; Licking, June 16; Ashland, June 16; Morrow, June 23; Richland, July 7; Coshocton, June 5; Holmes, June 2; Wayne, June 9.

Common Pleas.

Delaware, January 6, April 1, October 13.
 Knox, February 17, May 5, November 17.
 Licking, January 6, April 8, October 20.
 Ashland, March 3, August 18, November 10.
 Morrow, February 10, May 5, October 13.
 Richland, March 24, September 1, December 1.
 Coshocton, February 11, April 22, October 14.
 Holmes, January 13, March 31, September 1.
 Wayne, February 17, August 18, December 1.

SEVENTH DISTRICT.

District Court.

Washington, April 2; Gallia, April 11; Scioto, April 19; Perry, September 2; Hocking, September 10; Athens, September 15; Meigs, April 7; Lawrence, April 15; Pike, April 28; Fairfield, September 5; Jackson, September 23; Vinton, September 19.

Common Pleas.

Athens, February 10, June 2, November 10.
 Fairfield, March 17, June 19, December 1.
 Gallia, February 10, May 26, November 3.
 Hocking, February 17, May 19, November 10.
 Jackson, January 3, May 5, September 29.
 Lawrence, February 25, June 3, October 28.
 Meigs, January 20, May 5, October 16.
 Perry, January 20, April 28, October 20.
 Pike, February 24, June 16, November 10.
 Scioto, January 20, May 5, September 29.
 Vinton, February 3, May 26, October 20.
 Washington, January 13, May 5, October 15.

EIGHTH DISTRICT.

District Court.

Belmont, April 8; Jefferson, April 15; Harrison, August 27; Tuscarawas, September 1; Guernsey, September 5; Monroe, September 15; Noble, September 19; Morgan, September 24; Muskingum, September 29.

Common Pleas.

Muskingum, January 13, April 28, November 3.
 Morgan, March 11, June 10, October 16.
 Noble, January 20, May 5, October 20.
 Guernsey, February 18, May 27, November 11.

Belmont, February 4, May 20, November 11.
 Monroe, January 13, April 28, October 16.
 Jefferson, February 24, June 9, December 1.
 Tuscarawas, January 27, May 19, November 3.
 Harrison, January 6, April 28, October 15.

NINTH DISTRICT.

District Court.

Trumbull, April 3; Portage, April 21; Lake, March 27; Geauga, March 31; Ashtabula, March 17; Mahoning, March 17; Columbiana, April 14; Carroll, April 10; Stark, April 3.

Common Pleas.

Carroll, January 13, May 5, September 15.
 Stark, January 13, May 5, October 13.
 Columbiana, February 3, May 19, October 13.
 Mahoning, January 13, May 5, September 8.
 Trumbull, February 10, May 26, October 13.
 Portage, January 13, May 5, September 8.
 Lake, February 10, May 26, October 13.
 Geauga, January 13, May 5, September 15.
 Ashtabula, January 13, May 5, September 15.

APPORTIONMENT—GENERAL ASSEMBLY OF OHIO—1871—1881.

HOUSE OF REPRESENTATIVES.

POPULATION OF STATE, *2,665,118; RATIO, 26,651; ONE-HALF RATIO, 13,326; ONE AND THREE-FOURTHS RATIOS, 46,639; TWO FULL RATIOS, 53,302.

Counties.	Population.	Fraction over full ratio.	Fraction multiplied by five.	Number added on account of fraction.	Terms.					Total for the decade—1871-1881.
					1st.	2d.	3d.	4th.	5th.	
Adams	20,750	.....	.....	.....	1	1	1	1	1	5
Allen	21,623	.....	.....	.....	1	1	1	1	1	5
Ashtabula	21,933	.....	.....	.....	1	1	1	1	1	5
Ashtabula	32,518	5,667	29,335	1	1	1	1	1	2	6
Athens	21,872	.....	.....	.....	1	1	1	1	1	5
Auglaize	20,040	.....	.....	.....	1	1	1	1	1	5
Belmont	39,715	13,064	65,620	2	1	1	2	2	1	7
Brown	30,802	4,151	20,755	.....	1	1	1	1	1	5
Butler	39,912	13,261	66,305	2	1	1	2	2	1	7
Carroll	14,491	.....	.....	.....	1	1	1	1	1	5
Champaign	24,188	.....	.....	.....	1	1	1	1	1	5
Clarke	32,070	5,419	27,095	1	1	1	1	1	2	6
Clermont	34,269	7,618	36,090	1	1	1	1	1	2	6
Clinton	21,915	.....	.....	.....	1	1	1	1	1	5
Columbiana	38,299	11,648	58,240	2	1	1	2	2	1	7
Coshocton	23,600	.....	.....	.....	1	1	1	1	1	5
Crawford	25,566	.....	.....	.....	1	1	1	1	1	5
Cuyahoga	132,012	25,408	127,040	4	5	5	5	5	4	24
Darke	32,131	5,480	27,400	1	1	1	1	1	2	6
Defiance	15,719	.....	.....	.....	1	1	1	1	1	5
Paulding	8,544	.....	.....	.....	1	1	1	1	1	5
Delaware	25,175	.....	.....	.....	1	1	1	1	1	5
Erie	23,188	1,537	7,685	.....	1	1	1	1	1	5
Fairfield	31,139	4,488	22,440	.....	1	1	1	1	1	5
Fayette	17,170	.....	.....	.....	1	1	1	1	1	5
Franklin	63,019	9,117	48,585	1	2	2	2	2	3	11
Fulton	17,879	.....	.....	.....	1	1	1	1	1	5
Gallia	25,545	.....	.....	.....	1	1	1	1	1	5
Geauga	14,200	.....	.....	.....	1	1	1	1	1	5
Greene	28,052	1,401	7,005	.....	1	1	1	1	1	5
Guernsey	23,798	.....	.....	.....	1	1	1	1	1	5
Hamilton	260,370	20,511	102,555	3	10	10	10	9	9	48
Hancock	23,847	.....	.....	.....	1	1	1	1	1	5
Hardin	18,714	.....	.....	.....	1	1	1	1	1	5
Harrison	18,682	.....	.....	.....	1	1	1	1	1	5
Henry	14,028	.....	.....	.....	1	1	1	1	1	5
Highland	29,103	2,462	12,260	.....	1	1	1	1	1	5
Hocking	17,925	.....	.....	.....	1	1	1	1	1	5
Holmes	18,178	.....	.....	.....	1	1	1	1	1	5
Huron	28,532	1,881	9,405	.....	1	1	1	1	1	5
Jackson	21,759	.....	.....	.....	1	1	1	1	1	5
Jefferson	22,168	2,537	12,686	.....	1	1	1	1	1	5
Knox	28,333	.....	.....	.....	1	1	1	1	1	5

APPORTIONMENT—HOUSE OF REPRESENTATIVES—Continued.

Counties.	Population.	Fraction over full ratio.	Fraction multiplied by five.	Number added on account of fraction	Terms.					Total for the decade—1871-1875.
					1st.	2d.	3d.	4th.	5th.	
Lake	15,935				1	1	1	1	1	5
Lawrence	31,380	4,729	23,646		1	1	1	1	1	5
Licking	36,122	9,471	47,356	1	1	1	1	1	3	6
Logan	23,028				1	1	1	1	1	5
Lorain	30,308	3,657	18,285		1	1	1	1	1	5
Lucas	46,783			2	2	2	2	2	2	10
Madison	15,133				1	1	1	1	1	5
Mahoning	31,001	4,350	21,750		1	1	1	1	1	5
Marion	18,184				1	1	1	1	1	5
Medina	20,092				1	1	1	1	1	5
Meigs	31,465	4,814	24,070		1	1	1	1	1	5
Mercer	17,254				1	1	1	1	1	5
Miami	32,740	6,069	30,445	1	1	1	1	1	2	6
Monroe	25,780				1	1	1	1	1	5
Montgomery §	64,006	10,704	53,520	2	2	2	3	3	2	12
Morgan	20,363				1	1	1	1	1	5
Morrow	18,583				1	1	1	1	1	5
Muskingum	44,887	18,236	91,180	3	2	2	2	1	1	8
Noble	19,949				1	1	1	1	1	5
Ottawa	13,361				1	1	1	1	1	5
Perry	18,453				1	1	1	1	1	5
Pickaway	24,875				1	1	1	1	1	5
Pike	15,441				1	1	2	1	1	6
Portage	24,577				1	1	1	1	1	5
Preble	21,809				1	1	1	1	1	5
Putnam	17,083				1	1	1	1	1	5
Richland	32,518	5,885	29,325	1	1	1	1	1	2	6
Ross	37,097	10,446	52,230	1	1	1	1	1	2	6
Sandusky	25,504				1	1	1	1	1	5
Scioto	29,302	2,651	13,255		1	1	1	1	1	5
Seneca	30,828	4,177	20,885		1	1	1	1	1	5
Shelby	20,748				1	1	1	1	1	5
Stark	52,508				2	2	2	2	2	10
Summit	34,674	8,023	40,115	1	1	1	1	1	2	6
Trumbull	38,659	12,008	60,040	2	1	1	2	2	1	7
Tuscarawas	33,840	7,159	35,945	1	1	1	1	1	2	6
Union	16,730				1	1	1	1	1	5
Van Wert	15,824				1	1	1	1	1	5
Vinton	15,027				1	1	1	1	1	5
Warren	26,690	39	195		1	1	1	1	1	5
Washington	40,609	13,958	87,790	3	1	1	2	2	1	7
Wayne	35,022	5,431	42,155	1	1	1	1	1	2	6
Williams	20,991				1	1	1	1	1	5
Wood	24,596				1	1	1	1	1	5
Wyandot	15,554				1	1	1	1	1	5

* Actual population, 2,665,260. Apportionment was made before official count was received from Washington.

† Fraction over four full ratios.

‡ Fraction over two full ratios.

§ Fraction over nine full ratios.

APPORTIONMENT—SENATE—Continued.

Districts.	Counties.	Population.	Population of district.	Fraction over ratio	Fraction multiplied by five.	Number added for fraction	Terms.					Total.
							1st.	2d.	3d.	4th.	5th.	
16	Delaware	25,175	61,297				1	1	1	1	1	5
	Licking	36,122										
17	Knox	26,433	96,176	22,030	110,150	1	1	1	1	1	2	6
	Morrow	18,583										
and	Total 17th dis	44,916										
28	Wayne	35,062	57,440				1	1	1	1	1	5
	Holmes	18,178										
	Total 28th dis	53,260										
18	Coshocton	23,600					1	1	1	1	1	5
	Tuscarawas ..	33,840										
19	Gaernsey	23,798	59,552				1	1	1	1	1	5
	Monroe	25,780										
	Noble (part) ..	9,974										
20	Belmont	39,715	58,397				1	1	1	1	1	5
	Harrison	18,682										
21	Carroll	14,491	66,999				1	1	1	1	1	5
	Stark	52,508										
22	Jefferson	29,184	67,487				1	1	1	1	1	5
	Columbiana ..	38,299										
23	Trumbull	38,659	69,660				1	1	1	1	1	5
	Mahoning	31,001										
24	Ashtabula	32,518	62,653				1	1	1	1	1	5
	Lake	15,935										
	Geauga	14,200										
25	Cuyaboga	132,012	132,012	55,866	279,330	3	2	2	2	1	1	8
26	Portage	24,577										
	Summit	34,674	59,251				1	1	1	1	1	5
27	Medina	20,092										
	Lorain	30,308	104,849	28,703	143,515	1	1	1	1	1	2	6
and	Total 27th dis.	50,400										
29	Ashland	21,933										
	Richland	32,516	95,585	19,439	97,195	1	1	1	1	1	2	9
	Total 29th dis.	54,449										
30	Huron	28,532										
	Erie	28,188										
	Sandusky	25,604										
	Ottawa	13,361										

APPORTIONMENT—SENATE—Continued.

Districts.	Counties.	Population.	Population of district.	Fraction over full ratio.	Fraction multiplied by five.	Number added for fraction.	Terms.					Total.
							1st.	2d.	3d.	4th.	5th.	
31	Seneca	30,828	74,938				1	1	1	1	1	5
	Crawford	25,566										
	Wyandot	18,554										
32	Allen	23,623	131,905	45,849	229,245	■	2	2	2	1	1	8
	Auglaize	20,040										
	Defiance	17,719										
	Mercer	17,254										
	Paulding	8,544										
	Van Wert	15,824										
	Williams	20,901										
33	Fulton	17,789	144,126	67,980	339,900	4	2	2	2	2	1	9
	Hancock	23,847										
	Henry	14,028										
	Lucas	48,783										
	Putnam	17,083										
	Wood	24,596										

* Fraction over three full ratios.

ROSTER
OF
COUNTY OFFICERS.

COUNTY OFFICERS.

Counties.	County Seats.	Probate Judges.	Clerks of Courts.
Adams	West Union	James L. Coryell.....	John P. Leedom.
Allen	Lima	George W. Overmyer...	Daniel L. Crites.
Ashland	Ashland	John Taylor	John T. McCray.
Ashtabula.....	Jefferson	E. J. Betts.....	Asa Lamb.
Athens.....	Athens	Thomas L. Mintun.....	George W. Baker.
Anglaize	Wapakoneta....	Levi Hamaker	C. P. Davis.
Belmont	St. Clairsville....	Chandler W. Carroll....	Alex. C. Darrah.
Brown	Georgetown	John P. Biehn	John Lafabre.
Butler	Hamilton	Benjamin Thomas.....	Jervis Hargitt.
Carroll	Carrollton	C. C. Adams	Richard H. Fouts.
Champaign	Urbana.....	Alex. F. Vance.....	George T. Seibert.
Clarke	Springfield	John C. Miller	Edward P. Torbert.
Clermont	Batavia	James S. Brunaugh	John S. Parrott.
Clinton	Wilmington	John Matthews	I. N. Harlan.
Columbiana.....	New Lisbon.....	Simon Wisden	William Monaghan.
Coshocton	Coshocton	Alexander Hanlon	Israel Dillon.
Crawford	Bucyrus	Shannon Clements	David C. Cahill.
Cuyahoga.....	Cleveland	Daniel R. Tilden.....	Wilbur F. Hinman.
Darke	Greenville	John A. Jobes	Wesley Gorsuch.
Defiance	Defiance.....	Jacob J. Greene	Edwin Phelps.
Delaware	Delaware.....	Frank B. Sprague.....	John T. Evans.
Erie	Sandusky City....	Elisha M. Colver.....	Fred. W. Alvord.
Fairfield	Lancaster	William L. Rigby.....	George W. Graybill.
Fayette	Washington C. H.	J. B. Priddy	Elmer Welsheimer.
Franklin	Columbus	John M. Pugh	Harvey Cashatt.
Fulton	Wauseon	Caleb M. Keith	Albert Deyo.
Gallia	Gallipolis	Henry A. Kent.....	John L. Gny.
Geauga	Chardon	Henry K. Smith.....	William N. Keeny.
Greene.....	Xenia	James W. Harper	John Orr.
Guernsey	Cambridge	Eugene C. Riggs	Robert Hammond.
Hamilton	Cincinnati.....	Isaac B. Matson.....	Lewis G. Bernard.
Hancock	Findlay	Samuel B. Huffman	Scott W. Preble.
Hardin	Kenton	John R. Selders.....	William W. Fleming.
Harrison	Cadiz	Amon Lemmon	A. W. Scott.
Henry	Napoleon	James G. Haly.....	Oscar E. Barnes.
Highland	Hillsborough	James C. Norton.....	J. Martin Hughey.
Hocking	Logan	William T. Acker	John Hanson.
Holmes	Millersburg	William C. McDowell ..	R. W. Tannyhill.
Huron	Norwalk	Daniel H. Fox	S. T. A. Vansciver.
Jackson	Jackson	John I. C. Evans.....	William H. Horton.
Jefferson	Steubenville	Joseph W. Jordan.....	Thomas B. Coulter.
Knox	Mt. Vernon	B. A. F. Greer.....	Willard S. Hyde.
Lake	Painesville	G. N. Tuttle	Franklin Paine, Jr.
Lawrence	Ironton.....	George W. Thompson ..	William A. Belcher.
Licking	Newark	George M. Grasser	S. Sylvester Wells.
Logan	Bellefontaine	Rodolphus E. Pettit....	John A. McIlvaine.
Lorain	Elyria.....	Laertes B. Smith.....	William N. Briggs.
Lucas.....	Toledo	David R. Austin	M. J. Enright.
Madison	London	Oliver P. Crabb.....	A. A. Hume.
Mahoning	Youngstown	Leroy D. Thoman.....	Henry B. Shields.
Marion	Marion	Robert Hopkins.....	A. H. Hord.
Medina	Medina	Charles G. Coddling	George Hayden.
Meigs.....	Pomeroy	P. B. Stanbery.....	W. A. Race.
Mercer.....	Celina.....	David J. Roop	Theoph. G. Touvelle.
Miami	Troy	Arthur L. McKinney ..	John W. Cruikshank.
Monroe	Woodsfield	James R. Morris	Joel T. Judkins.
Montgomery	Dayton	John L. H. Frank.....	John S. Robertson.
Morgan	McConnellsville ..	Newell Corner	William H. Leeper.
Morrow	Mt. Gilead.....	Henry L. Beebe.....	Daniel L. Chase.
Muskingum	Zanesville	Henry L. Korte.....	Frederick Geiger.
Noble	Caldwell	Asbury P. Jennings....	H. E. Peters.
Ottawa	Port Clinton.....	J. H. H. Vithoff.....	William E. Bense.
Paulding.....	Paulding	Calvin L. Noble.....	O. D. Fuller.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Probate Judges.	Clerks of Courts.
Perry	New Lexington ..	James E. Fink	John H. Marlow.
Pickaway	Circleville	Henry N. Hedges, Sr ...	Robert C. Peebles.
Pike	Waverly	A. B. East	John P. Douglass.
Portage	Ravenna	Gideon Seymour	John Mehary.
Preble	Eaton	Andrew L. Harris	Wm. D. Quinn.
Putnam	Ottawa	John H. Gordon	John Thrift.
Richland	Mansfield	Henry D. Keith	Thomas T. Dill.
Ross	Chillicothe	Benj. F. Stone	Edwin W. Pearson.
Sandusky	Fremont	E. F. Dickinson	B. C. Winters.
Scioto	Portsmouth	Robert A. Calvert	Amos B. Cole.
Seneca	Tiffin	Upton F. Cramer	Jeremiah Rex.
Shelby	Sidney	W. C. Wyman	Dennis Mulvihill.
Stark	Canton	A. W. Heldenbrand	John T. Hays.
Summit	Akron	Samuel C. Williamson ..	George W. Weeks.
Trumbull	Warren	Albert Yeoman	M. C. Hart.
Tuscarawas	New Philadelphia	George A. Lahmer	Jacob DeGreif.
Union	Marysville	John B. Coats ..	Wm. M. Winget.
Van Wert	Van Wert	Alonzo W. Baker	George W. Day.
Vinton	McArthur	George Lantz	John C. Cooney.
Warren	Lebanon	John W. Keys	Lot Wright.
Washington	Marietta	C. T. Frazier	Christian H. Etz.
Wayne	Wooster	Aquilla Wiley	George Power.
Williams	Bryan	Charles A. Bowersox ...	Evans E. Bechtel.
Wood	Bowling Green...	George C. Phelps	Wm. S. Eberly.
Wyandot	Upper Sandusky .	Joel W. Gibson	Robert D. Dumm.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Sheriffs.	Prosecuting Attorneys.
Adams	West Union	J. K. Pollard	Henry Collinga.
Allen	Lima	John Franks	H. S. Prophet.
Ashland	Ashland	Joseph Moore	Byron Stillwell.
Ashtabula	Jefferson	T. S. Young	E. B. Leonard.
Athens	Athens	Parker Carpenter	L. M. Jewett.
Auglaize	Wapakoneta	Fred. Kohler	F. C. Layton.
Belmont	St. Clairsville	Wm. G. Kinney	R. M. Eaton.
Brown	Georgetown	John Carrigan, Sr.	W. W. McKnight.
Butler	Hamilton	Marcellus Thomas	James F. Campbell.
Carroll	Carrollton	David E. Roatch	David M. Brown.
Champaign	Urbana	Samuel C. Bosler	John F. Gowey.
Clarke	Springfield	Elijah G. Coffin	Geo. C. Rawlins.
Clermont	Batavia	Lemuel Teasdale	Frank Davis.
Clinton	Wilmington	Geo. H. Smith	E. J. West.
Columbiana	New Lisbon	Wm. M. Hostetter	John McVicker.
Coshocton	Coshocton	Jacob Severns	Albinus Stillwell.
Crawford	Bucyrus	John A. Schaber	George M. Zeigler.
Cuyahoga	Cleveland	John M. Wilcox	John C. Hutchins.
Darke	Greenville	John W. Hall	Henry Calkins.
Defiance	Defiance	Henry Schmick	Chas. E. Bronson.
Delaware	Delaware	Geo. L. Sackett	John J. Glover.
Erie	Sandusky City	M. L. Starr	Walter W. Bowen.
Fairfield	Lancaster	Geo. W. See	Thomas H. Dolson.
Fayette	Washington C. H.	Oswell Smith	Asa Gregg.
Franklin	Columbus	Josiah Kinnear	J. H. Outhwaite.
Fulton	Wauseon	Jos. H. Brigham	Henry H. Ham.
Gallia	Gallipolis	Chas. Stuart	Chas. W. White.
Geauga	Chardon	Silo P. Warriner	Newton H. Bostwick.
Greene	Xenia	Jas. H. Kyle	Horace Sabin.
Guernsey	Cambridge	Jas. M. McKittrick	Jacob C. Steele.
Hamilton	Cincinnati	Wm. P. Wallace	Chas. W. Baker.
Hancock	Findlay	P. C. Tritch	Henry Brown.
Hardin	Kenton	Geo. W. Darst	S. E. Young.
Harrison	Cadiz	Emanuel Howard	John C. Givin.
Henry	Napoleon	Daniel W. Spangler	David Meekison, Jr.
Highland	Hillsborough	W. C. Newell	J. M. Damenil.
Hocking	Logan	James N. Acker	Alex. Wilson.
Holmes	Millersburg	A. B. Gonser	Elijah J. Duer.
Huron	Norwalk	Parlee C. Breckenridge ..	Wm. B. Wolverton.
Jackson	Jackson	John M. Ewing	Chas. A. Atkinson.
Jefferson	Steubenville	Alexander Smith	Walter C. Ong.
Knox	Mt. Vernon	John F. Gay	Clark Irvine.
Lake	Painesville	Chas. F. Morley	Lord Sterling.
Lawrence	Ironton	Lorenzo D. Markin	John Hamilton.
Licking	Newark	Samuel H. Schofield	Asbury B. Barrick.
Logan	Bellefontaine	John McCracken	George W. Emerson.
Lorain	Elyria	Charles Stone	George P. Metcalf.
Lucas	Toledo	Samuel S. Linton	Morgan N. Odell.
Madison	London	William Jones	John F. Locke.
Mahoning	Youngstown	James B. Drake	M. Johnson.
Marion	Marion	Silas A. Guthrie	B. G. Young.
Medina	Medina	Chas. E. Parmelee	J. F. Groves.
Meigs	Pomeroy	Henry Warren	Ira Graham.
Mercer	Celina	Henry J. McKernan	Stephen A. Armstrong.
Miami	Troy	Daniel C. Miller	Calvin D. Wright.
Monroe	Woodsfield	William Reed	John P. Spriggs.
Montgomery	Dayton	Albert Beebe	John M. Sprigg.
Morgan	McConnelsville	John S. Dunn	William B. Crew.
Morrow	Mt. Gilead	DeWitt C. Sanford	Charles W. Allison.
Muskingum	Zanesville	Orrin Ballou	John R. Stonesipher.
Noble	Caldwell	Freeman C. Thompson ..	James M. McGinnis.
Ottawa	Port Clinton	John Mitchell	George W. Keightley.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Sheriffs.	Prosecuting Attorneys.
Paulding	Paulding	J. A. Furgerson	John W. Ayres.
Perry	New Lexington ..	James Porter	Joseph G. Huffman.
Pickaway	Circleville	Charles F. Hartmeyer ..	Chas J. Delaplane.
Pike	Waverly	Philip Buchert	Sidney A. Stedman.
Portage	Ravenna	Benjamin F. Keller	Osman S. Ferris.
Preble	Eaton	Wm. H. Snyder	Winfield Freeman.
Putnam	Ottawa	Josiah Markley	Americus V. Watts.
Richland	Mansfield	James Ritchey	John C. Burns.
Ross	Chillicothe	Thomas L. Mackey	Albert Douglass.
Sandusky	Fremont	Charles F. Pohlman	John T. Garver.
Scioto	Portsmouth	Fred. Reiniger	H. W. Farnham.
Seneca	Tiffin	Geo. D. Acker	G. B. Keppel.
Shelby	Sidney	Alexander Ramsay	Benjamin Martin.
Stark	Canton	John P. Rauch	Robert S. Shields.
Summit	Akron	Samuel A. Lane	Edward H. Stuart.
Trumbull	Warren	Sidney F. Bartlett	Thomas I. Gillmer.
Tuscarawas	New Philadelphia ..	Joseph S. Lyons	Jasper S. Mitchell.
Union	Marysville	Justus J. Miller	P. L. Woodburn.
Van Wert	Van Wert	Jesse R. Stith	Ira B. Shissler.
Vinton	McArthur	Cunningham Huston	Charles L. White.
Warren	Lebanon	Wm. H. Harlan	D. Allen.
Washington	Marietta	Wm. F. Stedman	Frank F. Oldham.
Wayne	Wooster	William Coulter	Edward S. Dowell.
Williams	Bryan	Geo. C. Kober	Robert A. Scott.
Wood	Bowling Green	Orrin Henry	Frank A. Baldwin.
Wyandot	Upper Sandusky ..	John M. Houston	Moses Kirby.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Auditors.	Treasurers.
Adams	West Union	Robert H. Ellison	Henry Corner.
Allen	Lima	Samuel D. Chambers	David East.
Ashland	Ashland	Elias J. Grosscup	George A. Ullman.
Ashtabula	Jefferson	W. H. Crowell	S. H. Cook.
Athens	Athens	A. W. S. Minear	Augustus J. Frame.
Auglaize	Wapakoneta	J. L. McFarland	Theodore Dickman.
Belmont	St. Clairsville	Wm. N. Coffland	Hamilton Eaton.
Brown	Georgetown	Enoch E. Roney	Enos B. Fee.
Butler	Hamilton	S. B. Berry	H. H. Jones.
Carroll	Carrollton	A. L. Billman	William Tripp.
Champaign	Urbana	John M. Fitzpatrick	James I. Blose.
Clarke	Springfield	Q. A. Petts	John W. Parsons.
Clermont	Batavia	M. J. W. Holter	Joseph Bicking.
Clinton	Wilmington	Augustus H. Haines	Thos. J. Garland.
Columbiana	New Lisbon	Stacy Pettit	Wm. G. Bentley.
Coshocton	Coshocton	Wm. Wolfe	John Wagner.
Crawford	Bucyrus	Jas. H. Robinson	Christian H. Shonert.
Cuyahoga	Cleveland	Levi F. Bauder	Moses G. Watterson.
Darke	Greenville	John C. Turpen	William Kerlin.
Defiance	Defiance	Wm. A. Slough	Adam Minsel.
Delaware	Delaware	Stephen C. Courey	John H. Warren.
Erie	Sandusky City	Ebenezer Merry	Reuben Turner.
Fairfield	Lancaster	Ephraim Ackers	Henry A. Martins.
Fayette	Washington C. H.	Thomas J. Lindsey	Eli Craig.
Franklin	Columbus	Emil Kieseewetter	Philip W. Corzilius.
Fulton	Wauseon	Isaac Springer	Hiram L. Moseley.
Gallia	Gallipolis	Joseph Stafford	Wm. W. Martindale.
Geauga	Chardon	Wm. Howard	Simeon L. Chapman.
Greene	Xenia	Andrew S. Frazer	Lester Arnold.
Guernsey	Cambridge	Wm. E. Boden	John W. Robins.
Hamilton	Cincinnati	Wm. S. Cappeller	John G. Fratz.
Hancock	Findlay	Joseph R. Kagy	Peter Hosler.
Hardin	Kenton	Jasper N. Welch	David P. Stevenson.
Harrison	Cadiz	Thomas W. Giles	W. B. Pumphrey.
Henry	Napoleon	Homer L. Ennes	John C. McLain.
Highland	Hillsborough	E. M. DeBruin	W. S. Patterson.
Hocking	Logan	Wm. N. England	John A. Shaw.
Holmes	Millersburg	Hosack Reed	John Sharp, Jr.
Huron	Norwalk	Henry W. Owen	Oliver W. Williams.
Jackson	Jackson	Thomas W. Patterson	James R. Hunter.
Jefferson	Steubenville	John Moore	John C. Brown.
Knox	Mt. Vernon	Alexander Cassil	Thomas Obbert.
Lake	Painesville	Benj. D. Chesney	Harvey Woodworth.
Lawrence	Ironton	Mark S. Bartram	John Snyder.
Licking	Newark	Corrington S. Brady	W. Newell Fulton.
Logan	Bellefontaine	John H. Stewart	Nelson H. Jackson.
Lorain	Elyria	Orville Root	Wm. A. Braman.
Lucas	Toledo	John Paul Jones	Elijah B. Hall.
Madison	London	Melville M. Thomas	Elias R. Florence.
Mahoning	Youngstown	James B. Hughes	Alexander Dickson.
Marion	Marion	James L. Bell	Peter Beerbower.
Medina	Medina	S. L. Dyer	F. B. Clark.
Meigs	Pomeroy	Geo. P. Sanford	B. M. Skinner.
Mercer	Celina	Joseph V. Sidenbender	Herman H. Pulskamp.
Miami	Troy	Chas. C. Barnett	John A. McCurdy.
Monroe	Woodfield	William Weddle	John Gatchell.
Montgomery	Dayton	Frederick Schutte	Henry H. Lauback.
Morgan	McConnellsville	Francis M. Kahler	Wm. C. Smiley.
Morrow	Mt. Gilead	Simon Rosenthal	John G. Russell.
Muskingum	Zanesville	Jas. T. Irvine	George W. Allen.
Noble	Caldwell	Daniel Neuhart, Jr.	George Wyscarver.
Ottawa	Port Clinton	John W. Mizener	John H. Magee.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Auditors.	Treasurers.
Paulding	Paulding	Charles Hakes	Samuel G. Robertson.
Perry	New Lexington ..	Orrin Thacker	Noah Karr.
Pickaway	Circleville	Frank M. Shulze	John L. Seal.
Pike	Waverly	Van H. Bond	John Rader.
Portage	Ravenna	William Grinnell	Nathan H. Smith.
Preble	Eaton	Samuel Oldfather	Samuel S. Dix.
Putnam	Ottawa	Lewis Lehmkuhle	Nelson H. McCormick.
Richland	Mansfield	Marion D. Ward	Merchant Carter.
Ross	Chillicothe	Frank J. Esker	Stanislaus Burkley.
Sandusky	Fremont	Adam Hodes	Elias Moore.
Scioto	Portsmouth	W. H. H. Cadot	B. R. Miles.
Seneca	Tiffin	Victor J. Zahn	John W. Barrack.
Shelby	Sidney	Orlando O. Mathers	Joseph S. Laughlin.
Stark	Canton	Jas. P. Sourbeck	Timothy Sullivan.
Summit	Akron	Edward Buckingham	David R. Paige, Jr.
Trumbull	Warren	Ralza C. Rice	Timothy W. Case.
Tuscarawas	New Philadelphia ..	Abraham R. Holmes	John A. Wagner.
Union	Marysville	W. L. Curry	George W. Court.
Van Wert	Van Wert	Wm. T. Exline	James Montgomery.
Vinton	McArthur	John T. Foreman	Joseph P. Whitlatch.
Warren	Lebanon	Chas. W. Randall	James S. Totten.
Washington	Marietta	Benj. J. McKinney	Wm. R. Goddard.
Wayne	Wooster	John Bruce Wilson	Lewis P. Ohliger.
Williams	Bryan	George Rings	Elisha M. Ogle.
Wood	Bowling Green	Samuel Case	Isaac W. Clayton.
Wyandot	Upper Sandusky ..	Landline Smith	George W. Biles.

* Deceased. Michael Hoeffler appointed to fill vacancy.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Recorders.	Surveyors.
Adams	West Union	James A. Stevenson	Allen V. Hutson.
Allen	Lima	Henry H. Heman	David D. Nicholas.
Ashland	Ashland	John P. M. Goodman...	John B. Weddell.
Ashtabula	Jefferson	E. F. Mason	J. A. Fickinger.
Athens	Athens	Josiah B. Allen	John Ackley.
Auglaize	Wapakoneta	Henry Ruck	Samuel Craig.
Belmont	St. Clairsville	James A. Barnes	Noble Carter.
Brown	Georgetown	Grandison Pinchard	Jacob H. Bower.
Butler	Hamilton	Alexander Getz	John C. Weaver.
Carroll	Carrollton	Wm. M. Hagerman	Eli D. Shaw.
Champaign	Urbana	George Kizer	C. W. L. Taylor.
Clarke	Springfield	Ashley Bradford	Chandler Robbins.
Clermont	Batavia	M. A. Wood	C. S. Miller.
Clinton	Wilmington	Wm. O. Holloway	David Wickersham.
Columbiana	New Lisbon	George F. Ball	John B. Strown.
Coshocton	Coshocton	John M. Crawford	Levi Gamble.
Crawford	Bucyrus	Wm. Strimmel	Frank L. Planta.
Cuyahoga	Cleveland	Asa M. Van Sickle	Clarence H. Burgess.
Darke	Greenville	P. H. Maher	Eli Armacost.
Defiance	Defiance	William E. Carpenter ..	Daniel H. English.
Delaware	Delaware	Elijah B. Adams	L. B. Denison.
Erie	Sandusky City	Wm. A. Fill	George Morton.
Fairfield	Lancaster	Timothy Fishbaugh	Chas. W. Borland.
Fayette	Washington C. H.	Z. W. Heagler	James A. McLean.
Franklin	Columbus	Nathan Cole	Benj. F. Bowen.
Fulton	Wauseon	Richard Taylor	Anthony B. Robinson.
Gallia	Gallipolis	Ira W. Booton	James W. Gardner.
Geauga	Chardon	Wm. H. Young	E. S. F. Phelps.
Greene	Xenia	Henry Torrence	Levi Riddell.
Guernsey	Cambridge	Hugh B. Huffman	Robert McKahan.
Hamilton	Cincinnati	Frank Bruner	George W. Haire.
Hancock	Findlay	Joseph F. Gutzwiler	Edwin Phifer.
Hardin	Kenton	George W. Armstrong ..	William H. Brown.
Harrison	Cadiz	John S. Graybill	Jacob Jarvis.
Henry	Napoleon	Daniel Hartnett	George E. Welsted.
Highland	Hillsborough	George Stevens	John W. Boyd.
Hocking	Logan	Benj. White	James R. Davis.
Holmes	Millersburg	John D. Shrimplin	James C. Calhoon.
Huron	Norwalk	Elon G. Boughton	Charles M. Wilcox.
Jackson	Jackson	Enoch H. Lewis	John D. Brown.
Jefferson	Staubenville	Jacob Hull	Henry Lewis.
Knox	Mt. Vernon	Samuel Kunkel	J. Nelson Headington.
Lake	Painesville	Silas A. Tiedel	Horatio N. Munson.
Lawrence	Ironton	Wm. F. McKnight	John R. C. Brown.
Licking	Newark	James F. Lingafelter	George P. Webb.
Logan	Bellefontaine	John O. Sweet	M. H. McCormick.
Lorain	Elyria	John Blanchard	Lafayette F. Ward.
Lucas	Toledo	Isaac Head	Chas. Shoemaker.
Madison	London	Leonard Eastman	Jonathan Arnett.
Mahoning	Youngstown	Thomas H. Ward	James M. Reno.
Marion	Marion	Dallas Day	Isaac Young.
Medina	Medina	F. R. Mantz	A. D. Sheldon.
Meigs	Pomeroy	John McClure	R. H. Ashworth.
Mercer	Celina	Edward Landfair	Marcus Schuyley.
Miami	Troy	George Green	Henry O. Evans.
Monroe	Woodsfield	James Myers	John E. Miracle.
Montgomery	Dayton	James H. Hall	Frank Snyder.
Morgan	McConnelsville	James M. West	M. K. Atkinson.
Morrow	Mt. Gilead	John B. Gatchell	John F. Buck.
Muskingum	Zanesville	David Zimmer	William Dunn.
Noble	Caldwell	Enoch W. Wickham	David Miller.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Recorders.	Surveyors.
Ottawa	Port Clinton	G. W. Bader	Ernst Franck.
Paulding	Paulding	Josiah Richards	John C. Harris.
Perry	New Lexington ..	George W. Moore	Samuel McCourtney.
Pickaway	Circleville	Josiah B. Valentine	William C Rowe.
Pike	Waverly	Oliver P. Beekman	Henry Overman.
Portage	Ravenna	Philo Pierce	Jedediah Cole.
Preble	Eaton	Hiram L. Robbins	James V. Acton.
Putnam	Ottawa	William Alt	Aaron Oberbeck.
Richland	Mansfield	Jeremiah Bollman	John Newman.
Ross	Chillicothe	Edward Cryder	Lorenzo Wesson.
Sandusky	Fremont	Jas. Worst	Michael Putnam.
Scioto	Portsmouth	William H. Williams ...	John B. Gregory.
Seneca	Tiffin	Thomas J. Kintz	Samuel Nighswander
Shelby	Sidney	A. J. Rebstock	Chas. H. Flinn.
Stark	Canton	Patrick L. Manley	John H. Hall.
Summit	Akron	George H. Payne	Robert S. Paul.
Trumbull	Warren	Wells A. Bushnell	Charles W. Tyler.
Tuscarawas	New Philadelphia	Peter W. Hines	Oliver H. Hoover.
Union	Marysville	George P. Robinson	Fred J. Sager.
Van Wert	Van Wert	Perry C. Conn	William B. Jones.
Vinton	McArthur	John Finnegan	Samuel C. Steinbrook.
Warren	Lebanon	H. H. Dunham	Augustus Hinsch.
Washington	Marietta	James Nixon	Joseph W. Hulbert.
Wayne	Wooster	Jacob Stark	Ezra D. Shreve.
Williams	Bryan	Barrett E. Conkling	James Paul.
Wood	Bowling Green ..	Robert Dunn	Daniel D. Ames.
Wyandot	Upper Sandusky	Simeon Inman	Jacob Greek.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Coroners.
Adams	West Union	William Rybolt.
Allen	Lima	Martin V. Blair.
Ashland	Ashland	George Smith.
Ashtabula	Jefferson	A. W. Stiles.
Athens	Athens	James C. Bower.
Auglaize	Wapakoneta	Otto W. Jacobs.
Belmont	St. Clairsville	Thomas Garrett.
Brown	Georgetown	William S. Norris.
Butler	Hamilton	William Spencer.
Carroll	Carrollton	James Gilbert.
Champaign	Urbana	Thomas Hitt.
Clarke	Springfield	J. L. Coleman.
Clermont	Batavia	E. V. Downs.
Clinton	Wilmington	John G. Outcalt.
Columbiana	New Lisbon	David Grover.
Coshocton	Coshocton	John Richeson.
Crawford	Bucyrus	Peter Bauer.
Cuyahoga	Cleveland	J. F. Isom.
Darke	Greenville	Thomas E. Teal.
Defiance	Defiance	Henry Kuhl.
Delaware	Delaware	Elam C. Vining.
Erie	Sandusky City	Dr. M. A. Hughes.
Fairfield	Lancaster	Thomas R. Torpey.
Fayette	Washington C. H.	Edgar C. Hamilton.
Franklin	Columbus	Patrick A. Egan.
Fulton	Wauseon	Seth T. Worden.
Gallia	Gallipolis	W. T. Northup.
Geauga	Chardon	P. M. Cowles.
Greene	Xenia	Daniel D. Moore.
Guernsey	Cambridge	David L. Forsythe.
Hamilton	Cincinnati	Ferdinand Steck.
Hancock	Findlay	Tobias G. Barnhill.
Hardin	Kenton	Godfrey Sutermaister.
Harrison	Cadiz	John S. McBean.
Henry	Napoleon	Michael Neff.
Highland	Hillsborough	Morgan M. Barrere.
Hocking	Logan	Daniel Heft.
Holmes	Millersburg	Joshua Stuber.
Huron	Norwalk	Robert H. Reynolds.
Jackson	Jackson	Nathaniel T. Hoover.
Jefferson	Stenbenville	Samuel Stephens.
Knox	Mt. Vernon	George Shira.
Lake	Painesville	Franklin Parker.
Lawrence	Ironton	James M. Mathews.
Licking	Newark	Cyrus A. Stephens.
Logan	Bellefontaine	Philander Jones.
Lorain	Elyria	Hiram Patterson.
Lucas	Toledo	H. D. Chamberlin.
Madison	London	Americus V. Chrisman.
Mahoning	Youngstown	Cornelius Harroff.
Marion	Marion	Calvin P. Gailey.
Medina	Medina	Hiram Goodwin.
Meigs	Pomeroy	James B. Scott.
Mercer	Celina	Stephen R. Wilson.
Miami	Troy	Edward N. Kitzmiller.
Monroe	Woodsfield	John Muhleman.
Montgomery	Dayton	John P. Kline.
Morgan	McConnelsville	Andrew Kahler.
Morrow	Mt. Gilead	Stephen Brown.
Muskingum	Zanesville	Daniel Smith.
Noble	Caldwell	Anthony I. Dove.
Ottawa	Port Clinton	David B. Reading.
Paulding	Paulding	C. H. Cunningham.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Coroners.
Perry	New Lexington	James Price.
Pickaway	Circleville	Jason Case.
Pike	Waverly	Adolph Hepe.
Portage	Ravenna	Aaron M. Sherman.
Preble	Eaton	Warren M. Campbell.
Putnam	Ottawa	Joseph Fournier.
Richland	Mansfield	A. J. Erwin.
Ross	Chillicothe	John R. Tucker.
Sandusky	Fremont	Hemen B. Smith.
Scioto	Portsmouth	Henry Ribble.
Seneca	Tiffin	William Smith.
Shelby	Sidney	Lewis Applegate.
Stark	Canton	Reuben H. Anderson.
Summit	Akron	Almon Brown.
Trumbull	Warren	Zachariah T. Ewart.
Tuscarawas	New Philadelphia	George W. Bowers.
Union	Marysville	Harrison McFadden.
Van Wert	Van Wert	Samuel Engleright.
Vinton	McArthur	William W. Fierce.
Warren	Lebanon	Berkley T. Brown.
Washington	Marietta	Conrad Krigbaum.
Wayne	Wooster	Jacob Arnold.
Williams	Bryan	Daniel Caulkins.
Wood	Bowling Green	George Mills.
Wyandot	Upper Sandusky	Jacob Tribolet.

INCORPORATIONS
AND
CHANGES IN INCORPORATED COMPANIES,
FOR THE YEAR ENDING NOVEMBER 15, 1878.

CLASSIFIED STATEMENT OF INCORPORATIONS, FOR THE YEAR ENDING NOV. 15, 1878.

Number.	Kind of corporation chartered.	Increase of capital stock.	Reduction of capital stock.	Capital stock authorized.
66	Manufacturing companies incorporated			\$5,991,400
2	" " increased capital....	\$162,500		
2	" " decreased capital....		\$250,000	
3	" " change of time of annual meeting			
30	Railroad companies incorporated			14,173,000
3	" " increased capital stock....	1,680,000		
11	" " extension of lines			
2	" " change of name			
1	" " change of time of annual meeting			
4	Railroad companies consolidated under new name			
28	Building and loan associations incorporated....			13,252,666
1	" " " increase of capital stock.....	40,000		
1	Building and loan associations, change of name			
9	Mining companies incorporated.....			1,705,000
5	Mining and manufacturing companies* incorporated			7,850,000
1	Mining and manufacturing companies, change of name			
4	Street railroad companies incorporated.....			139,000
1	" " consolidated under new name			
2	Banks, savings and loan associations incorporated			140,000
10	Printing and publishing companies incorporated			249,500
50	Coöperative fire and life insurance companies, mutual aid associations, etc., incorporated ..			
1	Coöperative fire and life insurance companies, surrendered charter or dissolved			
8	Gas companies incorporated			266,000
8	Coöperative trade associations incorporated ..			14,350
1	" " change of location of office.....			
15	Churches, societies, and benevolent associations incorporated			
5	Common carrier companies incorporated			195,000
1	" " increased capital stock	17,700		
1	Common carrier companies decreased capital stock		99,700	
1	Companies incorporated for building steamboats, sail-vessels, barges, canal boats, etc....			60,000
4	Fire insurance companies incorporated			250,000
4	Turnpike companies incorporated.....			47,000
1	" " sale of corporate franchise			
1	Plank-road companies incorporated.....			21,000
1	" " change of name.....			
3	Base-ball companies incorporated			16,500
3	Companies incorporated for building tenement-houses, halls, etc			30,000
3	Driving park and fair associations incorporated			40,000

CLASSIFIED STATEMENT OF INCORPORATIONS—Continued.

Number.	Kind of corporation chartered.	Increase of capital stock.	Reduction of capital stock.	Capital stock au- thorized.
1	Consolidated tank-line company incorporated ..	.....	.....	\$200,000
1	Board of trade companies incorporated .....	.....	.....	.....
1	Lumber companies incorporated .....	.....	.....	150,000
2	Telegraph companies incorporated .....	.....	.....	80,000
2	Detective associations incorporated .....	.....	.....	100
7	Hedge companies incorporated .....	.....	.....	217,000
2	Medical societies incorporated .....	.....	.....	1,000
3	Companies incorporated for hunting, fishing, and other sports .....	.....	.....	5,750
1	Wool growers' exchange, companies incorpo- rated .....	.....	.....	50,000
4	Water-works companies incorporated .....	.....	.....	425,000
1	Mercantile companies incorporated .....	.....	.....	20,000
1	Musical societies incorporated .....	.....	.....	15,000
1	Wrecking companies incorporated .....	.....	.....	10,000
2	Ice companies incorporated .....	.....	.....	60,000
1	Promotion of scienc and fine arts .....	.....	.....	.....
289	.....	\$1,900,200	\$349,700	\$45,674,266

**NAMES OF COMPANIES ORGANIZED FOR MANUFACTURING PURPOSES, WITH DATE OF
FROM NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of Company.	Location.
	1877.		
1	Nov. 19	Askins Glass Coffin Co.....	Orville
2	22	Western Paint and Roofing Co.....	Cincinnati
3	23	The Walden Ridge Coal and Iron Co.....	"
4	30	Hamilton Boot and Shoe Manufacturing Co.....	Hamilton
5	30	The Ice Company of Cincinnati	Cincinnati
6	Dec. 7	American Sickle Grinder Co	North Amherst
7	19	The Bonte Manufacturing Co.....	Cincinnati
	1878.		
8	Jan. 3	S. Hand Manufacturing Co	"
9	4	The Long & Allstatter Co	Hamilton
10	12	Canton Bridge Co.....	Canton
11	14	The J. V. Woolsey & Son Manufacturing Co.....	Sandusky
12	15	The American Hydro-Carbon Gas Co	Columbiana
13	17	United States Iron Co	Youngstown
14	17	Oviatt Manufacturing Co.....	Hudson
15	18	The Enterprise Glass Co	Ravenna
16	Feb. 4	Julius J. Wood Starch Co.....	Columbus
17	5	Sellew Manufacturing Co.....	Cincinnati
18	11	The Champion Iron Fence Co.....	Kenton
19	12	Nevada Bending Co.....	Nevada
20	20	Scioto Machine Works	Circleville
21	26	Mills & Spellmire Manufacturing Co.....	Cincinnati
22	27	Grove Coal Co	Cleveland
23	Mar. 5	The Osborn, Chase & Swayne Co	Toledo
24	5	The Calumet Fire-Clay Co	Elliottsville
25	6	Olmsted Splint Broom Co.....	Olmsted Falls
26	7	The Elyria Shear Co.....	Elyria
27	15	Ontario Coal and Mining Co.....	Cleveland
28	23	Ohio Machine Co.....	Columbus
29	28	The Pulvermacher Galvanic Co.....	Cincinnati
30	April 3	W. N. Hedges, Funk & Co	Springfield
31	10	Pettibone Manufacturing Co.....	Cincinnati
32	12	The American Railroad Ballast Unloader Co.....	Toledo
33	18	The Champion Iron Bridge and Manufacturing Co.....	Wilmington
34	May 1	American Life-Boat and Launcher Co	Cleveland
35	10	The Ludlow Lock Co.....	"
36	16	Leader Gasoline Stove Co.....	"
37	22	Paulding Mills Flouring Co.....	Paulding
38	June 1	The Columbus Patent Collar Co	Columbus
39	4	The Mt. Vernon Lantern Works.....	Mt. Vernon
40	5	Trembath Medicine Co	Cleveland
41	5	Bonaparte Consolidated Gold and Silver Min'g Co.....	Cincinnati
42	7	White Cross Consolidated Mining Co.....	Cleveland
43	7	Straight Line Bridge Co	Hamilton
44	13	Wester Lock Co	Geneva
45	20	Columbus Watch Co	Columbus
46	July 2	American Cast Steel Co.....	Cleveland
47	9	The Maumee Valley Cheese Co	Antwerp
48	11	The Marblehead Lime Co	Ottawa and Erie Co's.
49	16	The Springfield Malleable Iron Co	Springfield
50	Aug. 6	The Hillsboro Shears Manufacturing Co.....	Hillsboro
51	7	Neff Diamond Black Co.....	Gambier
52	9	The Bellows Type Writer Co	Cleveland
53	10	Worthington & Sons.....	North Amherst
54	15	Anchor Transport Co.....	Middleport
55	19	King's Great Western Powder Co	Xenia and Cincinnati.
56	21	Merchant Tailors' Association.....	Dayton

**FILING CERTIFICATES, LOCATION, PURPOSE, AND AMOUNT OF CAPITAL STOCK,
TO NOVEMBER 15, 1878.**

Purpose of Organization.	Amount of capital stock.	Number.
Manufacturing glass burial cases	\$209,000	1
" and sale of non-corrosive iron paint, roofing and mineral paint	100,000	2
" iron and mining iron, coal, and other minerals	* 150,000	3
" and sale of boots and shoes	25,000	4
" and sale of ice	50,000	5
" and sale of machines for grinding sickles	25,000	6
" and sale of frames and moldings	50,000	7
" and general foundry business	50,000	8
" and sale of agricultural implements, machinery, etc.	200,000	9
" bridges	150,000	10
" wagon and carriage wood-work	40,000	11
" gas works, puddling furnaces, etc.	1,000,000	12
" and sale of iron and steel	50,000	13
" agricultural implements and machinery	50,000	14
" flint and crystal glass of all kinds	25,000	15
" starch	100,000	16
" and sale of tin and sheet-iron goods	100,000	17
" iron fencing	100,000	18
" and sale of cylindrical vessels and bent ware	10,000	19
" machinery of all kinds	30,000	20
" and dealing in lumber	100,000	21
" iron and mining iron, coal and other minerals	* 100,000	22
" wooden and gilt frames, cornice, etc.	210,000	23
" sewer-pipes, fire brick, vases, etc.	60,000	24
" splint brooms	50,000	25
" shears and light hardware	10,000	26
" iron and mining iron, coal and other minerals	* 100,000	27
" machinery of all kinds, of iron and steel	30,000	28
" galvanic belts, etc.	100,000	29
" baking powder, pills, and flavoring extracts	100,000	30
" and sale of military and society regalia	10,000	31
" and sale of railroad ballast unloaders	60,000	32
" iron bridges, fences and machinery	50,000	33
" life-boats and launching apparatus	50,000	34
" and sale of locks, knobs, latches, etc.	200,000	35
" and sale of vapor stoves	5,000	36
" flour and general milling business	10,000	37
" and sale of patent horse-collars	50,000	38
" and sale of coal oil lamps and lanterns	10,000	39
" and sale of Trembath's patent medicines	20,000	40
" and mining gold and silver, in Idaho Territory	* 2,500,000	41
" gold and silver, and mining coal and other minerals in Nevada	* 5,000,000	42
" bridge over Miami River	5,000	43
" metal locks and fastenings	200,000	44
" and sale of watches	10,000	45
" cast steel under "Berchtold's patent"	100,000	46
" cheese and butter	3,000	47
" lime and quarrying stone	50,000	48
" gray iron, tools, implements, etc.	50,000	49
" and sale of patent shears and button-hole cutter	6,400	50
" printing ink, paints, and blackings	25,000	51
" and sale of type writers	20,000	52
" grindstones and quarrying stone	250,000	53
" and repairing steamboats and barges	5,000	54
" gun-powder	250,000	55
" clothing and wearing apparel	10,000	56

COMPANIES ORGANIZED FOR MANUFACTURING PURPOSES—Continued.

Number.	Date of filing certificate.	Name of Company.	Location.
	1878.		
57	Sept. 2	Cleveland Linseed Oil Works	Cleveland
58	3	The Delphos Paper Co	Delphos
59	7	The Ashtabula Wooden Ware Co	Ashtabula
60	7	Corn's Iron Co	Girard
61	Oct. 2	American Lubricating Oil Co	Cleveland
62	10	Moeler Safe and Lock Co	Cincinnati
63	12	The Western Glycerine Manufacturing Co	"
64	19	Proctorville McGinnis Harrow Co	Proctorville
65	22	Oppman Brewing and Malt Co	Cleveland
66	29	Russell & Co	Masillon
67	31	Cleveland Gas Economizing Co	Cleveland
68	Nov. 1	Heberling Running Stitch Sewing Machine Co ..	Mt. Pleasant
69	7	The Arctic Ice Machine Manufacturing Co	Cincinnati
70	11	The Winslow Safety Car Stove Co	Cleveland
71	11	White Star Zinc Co	"

NAMES OF RAILROAD COMPANIES INCORPORATED FOR THE PURPOSE OF EXTENSION OF LINE, ARE TO PASS, AND AMOUNT OF CAPITAL STOCK,

Number.	Date of filing certificate.	Name of Company.
	1877.	
1	Nov. 21	Shawnee, Hocking Valley, and Southern Railroad
2	23	Columbus and Coal Valley Extension of the Columbus and North-Western Railway Co
3	27	Waynesville, Port William and Jeffersonville Railroad Co
4	Dec. 13	Columbus and North-Western Railway Co
	1878.	
5	Jan. 30	Marietta and Shawnee Railway Co
6	May 8	Celina, Van Wert, and State Line Extension of the Columbus and North-Western Railway Co
7	31	Cincinnati and Fayetteville Railroad Co
8	Aug. 7	Cincinnati and Eastern Railway Co
9	23	Ohio and West Virginia Railway Co
10	Nov. 7	Cleveland, Tuscarawas Valley, and Wheeling Railway Co
11	13	Canton Branch of the Youngstown and Connotton Valley Railroad

COMPANIES ORGANIZED FOR MANUFACTURING PURPOSES—Continued.

Purpose of Organization.	Amount of capital stock.	Number.
Manufacturing linseed oil and products from flax seed	\$200,000	57
“ straw and manilla paper	25,000	58
“ butter-tubs, chairs, and articles made of wood	6,000	59
“ steel and iron implements	30,000	60
“ and sale of oils and petroleum products	100,000	61
“ and sale of fire and burglar proof safes, vaults, etc	100,000	62
“ glycerine	50,000	63
“ agricultural implements	5,000	64
“ lager beer and malt liquors	100,000	65
“ agricultural implements and machinery	500,000	66
“ and sale of machines for economizing in the consumption of gas	25,000	67
“ of sewing machines	12,000	68
“ refrigerating machines and artificial ice	50,000	69
“ car stoves	175,000	70
“ zinc, paints, oils, etc	100,000	71
	\$13,841,400	

WITH DATE OF FILING CERTIFICATE, TERMINI, COUNTIES THROUGH WHICH THE ROADS
FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

Termini.	Counties through which the Rail- roads pass.	Amount of capital stock.	Number.
Shawnee and McConnelsville	Perry, Morgan	\$200,000	1
Columbus and McConnelsville	Franklin, Fairfield, Perry, Hocking, Mor- gan	200,000	2
Jeffersonville and Washington	Fayette county .....	.....	3
Columbus and McConnelsville	Franklin, Fairfield, Hocking, Perry, Mor- gan .....	.....	4
Big Run Station and Galli- polis	Athens, Meigs, Gallia (Branch N. G.)....	*	5
Celina and State line, in Wil- liams county	Mercer, Van Wert, Paulding, Defiance, Williams	100,000	6
Fayetteville and Nelsonville .	Brown, Highland, Clinton, Pike, Jack- son, Ross, Vinton, Hocking, Athens ..	.....	7
New Richmond and Aberdeen	Clermont, Brown .....	.....	8
Hawk's Bridge and Pomeroy .	Vinton, Gallia, Meigs, (Branch Road) ..	*	9
Massillon and 13-5 mile S. W.	Stark (Sippo Branch)	*	10
Minerva and Canton	Stark (Branch)	*	11
		\$500,000	

* Amended certificate.

**NAMES OF RAILROAD COMPANIES INCORPORATED, WITH DATE OF FILING CERTIFICATES,
STOCK, FROM NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of Company.
	1877.	
1	Nov. 21	River Valley and Lake Erie Narrow Gauge Railway Co.....
2	Dec. 1	The Ohio River Railway Co
3	5	Shawnee and New Lexington Narrow Gauge Railroad
4	6	The Dayton, Covington, and Toledo Railroad Co.....
5	6	The Island Creek and Richmond Mineral Railroad
6	14	Tiffin and North-western Railroad Co
7	17	The Zanesville and Pomeroy Railroad Co.....
8	26	The East and West Railway Co
	1878.	
9	Jan. 3	Ripley, Wilmington and Dayton Railroad Co
10	16	The Kalida Narrow Gauge Railroad Co
11	17	Pittsburgh and Chicago Narrow Gauge Railroad Co.....
12	30	Cincinnati and Blanchester North Eastern.....
13	30	The Cleveland Southern Railway Co
14	31	The Delphos, Bluffton, and Frankfort Railway Co
15	Feb. 21	The Quaker City, Fairview, and Freeport Narrow Gauge Railroad Co....
16	Mar. 18	The Springfield, St. Paris, and Sidney Railroad Co.....
17	21	The Springfield, Troy, and Piqua Railroad.....
18	April 12	The Columbus and Bellefontaine Railway Co.....
19	May 9	Cleveland and Youngstown Railroad Co.....
20	21	Cincinnati and Hamilton Narrow Gauge Railway.....
21	24	Bellefontaine and North-Western Railway Co
22	28	The Springfield, Troy, and North-Western Railroad.....
23	31	Alliance and Lake Erie Railroad Co
24	June 22	The Cincinnati Suburban Steam Railway Co
25	July 18	Lick Mineral Railroad.....
26	30	Paint Valley Railroad Co
27	May 22	Ohio and West Virginia Railway Co
28	Sept. 3	Waynesville, Harveysburg, and Wilmington Railway Co.....
29	Oct. 22	Jackson Iron and Coal Railroad Co
30	31	Cincinnati and Walnut Hills Railway Co.....

TERMINI, COUNTIES THROUGH WHICH THE ROADS ARE TO PASS, AND AMOUNT OF CAPITAL TO NOVEMBER 15, 1878.

Termini of Road.	Counties through which the Rail-roads pass.	Amount of capital stock.	Number.
Farmington and Windsor....	Trumbull, Ashtabula	\$80,000	1
Portsmouth and Gallipolis ...	Scioto, Lawrence, Gallia	1,500,000	2
Shawnee and New Lexington..	Wholly in Perry county	50,000	3
Dayton and Toledo	Montgomery, Miami, Darke, Mercer, Anglaize, Allen, Putnam, Henry, Wood, Lucas	100,000	4
Richmond and Steubenville..	Wholly in Jefferson county	60,000	5
Tiffin and State line in Williams county	Seneca, Hancock, Wood, Henry, Fulton, Williams	1,500,000	6
Zanesville and Pomeroy	Muskingum, Perry, Morgan, Athens, Meigs	300,000	7
East and west State lines....	Trumbull, Geauga, Portage, Summit, Medina, Huron, Seneca, Hancock, Putnam, Paulding	3,000,000	8
Elyria and Dayton	Brown, Highland, Clinton, Greene, Montgomery	200,000	9
Miller's Crossing and Kalida..	Wholly in Putnam county	25,000	10
Youngstown and west State line	Mahoning, Portage, Stark, Holmes, Wayne, Ashland, Richland, Huron, Seneca, Hancock, Putnam, Paulding..	3,000,000	11
Cincinnati and Columbus....	Hamilton, Clermont, Warren, Clinton, Fayette, Madison, Franklin	500,000	12
Cleveland and Pomeroy	Cuyahoga, Lorain, Medina, Wayne, Holmes, Coshocton, Muskingum, Perry, Hocking, Athens, Meigs	500,000	13
Delphos and west State line..	Allen, Mercer, Van Wert	25,000	14
Quaker City and Freeport...	Guernsey, Harrison	150,000	15
Springfield and Sidney	Clarke, Champaign, Shelby	200,000	16
Springfield and Piqua	Clarke, Miami	200,000	17
Columbus and Bellefontaine ..	Franklin, Union, Logan	200,000	18
Youngstown and Ravenna ...	Mahoning, Trumbull, Portage	300,000	19
Cincinnati and Hamilton	Butler, Hamilton	500,000	20
Bellefontaine and Van Wert ..	Logan, Shelby, Anglaize, Allen, Van Wert	200,000	21
Springfield and Troy	Clarke, Miami	150,000	22
Alliance and Fairport Harbor	Stark, Mahoning, Portage, Lake, Trumbull, Geauga	450,000	23
Cincinnati and Madisonville ..	Wholly in Hamilton county	300,000	24
Jackson	Wholly in Jackson county	5,000	25
Chillicothe and Hillsboro	Ross, Highland	200,000	26
Columbus and Gallipolis	Franklin, Pickaway, Fairfield, Hocking, Vinton, Gallia	250,000	27
Waynesville and Wilmington	Warren, Clinton	75,000	28
Jackson county	Wholly in Jackson county	3,000	29
Cincinnati and Mason	Hamilton, Warren	150,000	30
		\$14,173,000	

NAMES OF STREET RAILROAD COMPANIES INCORPORATED, WITH DATE OF NOVEMBER 15, 1877,

Number.	Date of filing certificate.	Name of Company.
1	1877. Nov. 27	Tiffin Street Railroad Company
2	1878. Feb. 9	The Lima Street Railroad Company
3	26	The Central Passenger Railroad Company
4	April 10	Norwalk Street Railway Company

NAMES OF TURNPIKE COMPANIES INCORPORATED, WITH DATE OF FILING FROM NOVEMBER 15, 1877,

Number.	Date of filing certificate.	Name of Company.	County where located.
1	1878. Jan. 7	The Idaho, Jasper and Piketon Turnpike Co	Pike
2	May 8	The Blue Rock Turnpike Co	Hamilton
3	June 4	The State or Cleves Road Turnpike Co	"
4	Sept. 13	The Braffetsville and New Paris Turnpike Co	Darke and Preble

NAMES OF PLANK-ROAD COMPANIES INCORPORATED, WITH DATE OF FILING FROM NOVEMBER 15, 1877,

Number.	Date of filing certificate.	Name of Company.	County where located.
1	1878. April 30	Independence and Parma Plank Road Co	Cuyahoga

NAMES OF BANKS, SAVINGS AND LOAN ASSOCIATIONS INCORPORATED, WITH DATE NOVEMBER 15, 1877,

Number.	Date of filing certificate.	Name of Bank or Loan Association.
1	1878. Sept. 6	Fairfield County Bank
2	Nov. 14	Citizens' Bank of Greenfield

FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK, FROM
TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Number.
Tiffin	\$20,000 00	1
Lima	14,000 00	2
Toledo	100,000 00	3
Norwalk	5,000 00	4
	\$139,000 00	

CERTIFICATE, COUNTY WHERE LOCATED, AND AMOUNT OF CAPITAL STOCK,
TO NOVEMBER 15, 1878.

Termini.	Amount of capital stock.	Number.
Idaho and Piketon	\$6,000	1
Six Mile House and New Baltimore	35,000	2
Greene and Miami townships .....	.....	3
Braffetsville and New Paris	6,000	4
	\$47,000	

CERTIFICATE, COUNTY WHERE LOCATED, AND AMOUNT OF CAPITAL STOCK,
TO NOVEMBER 15, 1878.

Termini.	Amount of capital stock.	Number.
A point in Brooklyn township and Walling's Corners	\$21,000	1

OF FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK, FROM
TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Number.
Lancaster	\$90,000	1
Greenfield	50,000	2
	\$140,000	

**NAMES OF COMPANIES INCORPORATED FOR MINING PURPOSES, WITH DATE OF
FROM NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of Company.	Location of Mine.
	1877.		
1	Nov. 23	The Walden Ridge Coal and Iron Co.....	.....
2	Dec. 11	The Buckeye Gold and Silver Mining Co	Colorado
3	17	Anderson Coal Co.....	Mahoning county.....
4	21	Arkansas and Ohio Mining and Development Co.	Arkansas
	1878.		
9	Feb. 9	Little Beaver Coal Co.....	Columbiana
6	27	Grove Coal Co	Stark county
7	Mar. 15	Ontario Coal and Mining Co	Tuscarawas county ...
8	April 3	Nimrod Gold and Silver Mining Co.....	Colorado
9	June 5	Bonaparte Consolidated Gold and Silver Min'g Co.	Idaho
10	7	White Cross Consolidated Mining Co	Nevada
11	Aug. 5	Pomeroy Coal Co	Meigs county.....
12	6	Grampion Silver Mining Co	Utah Territory
13	26	Cambridge Coal Co	Guernsey county.....
14	Sept. 19	The Tunnel Coal and Coke Co	Perry county

* See Manufacturing Companies.

**NAMES OF FIRE INSURANCE COMPANIES INCORPORATED, WITH DATE OF
FROM NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of Company.
	1878.	
1	Jan. 21	Columbus Mutual Fire Insurance Company
2	Mar. 6	The Star Mutual Fire Insurance Company
3	6	The Alliance Mutual Fire Insurance Company.....
4	Oct. 30	The Xenia Fire Insurance Company.....

**NAMES OF COÖPERATIVE TRADE ASSOCIATIONS INCORPORATED, WITH DATE OF
NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of Company or Association.
	1877.	
1	Dec. 24	Charity Grange, Patrons of Husbandry, No. 1208.....
	1878.	
2	Feb. 11	The Grange Hall Building Association
3	11	The Lilly Chapel Grange Association, Patrons of Husbandry.....
4	May 2	Rush Creek Grange No. 67, Patrons of Husbandry.....
5	3	Lilly Chapel Industrial Association
6	June 13	Latty Grange No. 621, Patrons of Husbandry.....
7	27	Liberty Center Ohio Coöperative Association No. 150
8	Aug. 7	Summit Grange No. 1283.....

FILING CERTIFICATE, LOCATION OF MINE, AND AMOUNT OF CAPITAL STOCK,
TO NOVEMBER 15, 1878.

Location of Office.	Purpose of Organization.	Amount of capital stock.	Number.
Cincinnati	Mining coal, iron, and minerals	*\$150,000	1
Chagrin Falls	" gold, silver, and minerals	100,000	2
.....	" coal and other minerals	20,000	3
Cleveland	" silver and lead	200,000	4
"	" coal and other minerals	5,000	5
"	" coal and other minerals	*100,000	6
"	" coal, iron, and other minerals	*100,000	7
Columbus and Chicago ..	" gold and silver, etc	1,000,000	8
Cincinnati	" gold and silver, etc	*2,500,000	9
Cleveland	" gold and silver, etc	*5,000,000	10
Pomeroy	" coal and freighting salt	125,000	11
Toledo	" silver and other precious metals	200,000	12
Cambridge	" coal and other minerals	30,000	13
Columbus	" coal and other minerals	25,000	14
		\$9,555,000	

FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK,
TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Number.
Columbus	\$50,000	1
Cleveland	50,000	2
Alliance	50,000	3
Xenia	100,000	4
		\$250,000

FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK, FROM
TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Number.
Greene county		1
Edinburg	\$5,000	2
Lilly Chapel	2,000	3
Brunoa	1,000	4
Lilly Chapel	1,000	5
Gilbert's Mills	500	6
Henry county	2,000	7
Summit county	2,000	8
		\$14,500

**NAMES OF COÖPERATIVE FIRE AND LIFE INSURANCE COMPANIES, MUTUAL AID
LOCATION, FROM NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of company.
	1877.	
1	Nov. 30	The Patrons' Mutual Insurance Company of Knox County
2	Dec. 14	The Mutual Fire Association
3	17	Buckeye Mutual Aid Association
4	20	Warren County Farmers' Mutual Insurance Association
5	26	Ashland County Patrons' Mutual Insurance Company
	1878.	
6	Jan. 24	The German Mutual Insurance Association
7	Feb. 4	Gegenseitiger Schütz Verein
8	4	The University Gegenseitiger Feuer Versicherung Unterstützung Verein..
9	5	The Ohio Temperance Mutual Benefit Association
10	7	West and Knox Townships Farmers' Aid Society
11	9	The Union Mutual Fire Insurance Company of Union Township
12	12	Pike Township Farmers' Mutual Insurance Company
13	13	The Young Men's Mutual Life Association
14	14	The Home Mutual Fire Association
15	27	Ohio Mortuary Union
16	27	King Hiram Masonic Mutual Benefit Association
17	27	The Trumbull County Patrons' Mutual Insurance Company
18	Mar. 5	Lordstown Farmers' Mutual Fire Insurance Company
19	4	Odd Fellows' Protection Alliance of Ohio
20	5	Jelloway Mutual Aid Association
21	13	The Huron County Farmers' Insurance Company
22	26	The Stark County Patrons' Mutual Insurance Company
23	April 3	Lake Township Mutual Insurance Company
24	4	The Ohio Life and Benefit Association
25	6	Commercial Life Association
26	22	Farmers' Mutual Relief Association of Seneca County
27	May 3	The Township Line Mutual Protective Association
28	3	Pittsfield Mutual Fire Insurance Association
29	7	Smith Township Aid Society
30	17	The Cleveland Mutual Benefit Association
31	21	The Mutual Life Association
32	25	The German Benevolent Association
33	31	The Insurance Degree of the Grand Division Sons of Temperance of Ohio..
34	June 13	German Independent Mutual Aid Society
35	18	Mutual Life Association
36	25	Brown Township Insurance Company
37	25	Mutual Aid and Life Association
38	Aug. 29	" " (supplemental)
39	30	Ohio Grangers' Mutual Insurance Company
40	Sept. 4	The Pro-rata Fire Insurance Company
41	6	Buckeye Mutual Relief Association
42	10	Washington Mutual Aid Association
43	17	Washington Township Fire and Lightning Insurance Association
44	19	The Christian Church Relief Association
45	20	The Mutual Life Association
46	-----	The Mutual Insurance Company of Richland Township
47	Oct. 4	Ohio Life Association
48	11	The Patrons' Mutual Relief Association
49	10	The Farmers' Mutual Relief Association
50	Nov. 4	Columbia Mutual Aid Society

**ASSOCIATIONS, ETC., INCORPORATED, WITH DATE OF FILING CERTIFICATE, AND
TO NOVEMBER 15, 1878.**

Location.	Purpose of organization.	Number.
Mt. Vernon	Mutual fire and casualty insurance	1
Toledo	" " "	2
Danville	Mutual life insurance	3
Springboro	Mutual fire and casualty insurance	4
Ashland	" " "	5
Glandorf	" " "	6
Cleveland	" " "	7
"	" " "	8
Columbus	Mutual life insurance	9
Columbiana county	Mutual fire and casualty insurance	10
Petersburg	" " "	11
Pike Township Hall	" " "	12
Cincinnati	Mutual life insurance	13
Canton	Mutual fire and casualty insurance	14
Cleveland	Mutual life insurance	15
Xenia	" "	16
Warren	Mutual fire and casualty insurance	17
Lordstown Center	" " "	18
Mansfield	Mutual life insurance	19
Jelloway	" "	20
North Fairfield	" "	21
Canton	" "	22
Uniontown	" "	23
Norwalk	" "	24
Cincinnati	" "	25
Tiffin	Mutual fire and casualty insurance	26
Cannon's Mill	" " "	27
Pittsfield	" " "	28
Mahoning county	" " "	29
Cleveland	Mutual life insurance	30
Newark	" "	31
Akron	" "	32
Cincinnati	" "	33
Hannibal	" "	34
Newark	" "	35
Malvern	Mutual fire and casualty insurance	36
Bellefontaine	Mutual life insurance	37
"	" "	38
Jefferson	Mutual fire and casualty insurance	39
Columbus	" " "	40
Nelsonville	Mutual life insurance	41
Mt. Vernon	" "	42
Plimpton P. O.	Mutual fire and casualty insurance	43
Troy	Mutual life insurance	44
Chillicothe	" "	45
Marion county	Mutual fire and casualty insurance	46
Newark	Mutual life insurance	47
Rutland	Mutual fire and casualty insurance	48
Fremont	" " "	49
Shelby	Mutual life insurance	50

NAMES OF BUILDING AND LOAN ASSOCIATIONS INCORPORATED, WITH DATE OF FILING CER-

Number.	Date of filing cer- tificate.	Name of Association.
	1877.	
1	Nov. 26	The Mount Carmel Loan and Building Association.....
2	Dec. 12	The Savings Building and Loan Association.....
	1878.	
3	Jan. 16	The Fairmount Building, Loan and Savings Association.....
4	24	The German Catholic Aurora Homestead Association.....
5	30	The East Newark Savings, Loan and Building Association.....
6	Feb. 5	The Celtic Building Association
7	11	The Citizen's Loan and Building Association.....
8	13	The German Building and Savings Association
9	20	City Loan and Building Association.....
10	March 9	The Logan Building and Loan Association
11	16	Perpetual Savings and Building Association.....
12	25	Fulton Building and Savings Association No. 4.....
13	27	Emmett Building Association.....
14	April 3	Cincinnati Building and Deposit Association
15	13	Der Marietta Bau Verein No. 3.....
16	15	The Newtown Loan and Building Association
17	19	Equitable Loan and Building Association
18	29	The South West End Building Association
19	July 1	Nahant Land and Building Association.....
20	9	Grand Central Building Association.....
21	19	Concordia Building Association.....
22	Aug. 2	The Bank of Commerce
23	13	The Lincoln Building Association.....
24	15	Union Building Association.....
25	May 8	The Shelby County Building and Loan Association.....
26	11	Family Building Association No. 1.....
27	Sept. 13	Mount Adams Building and Loan Association.....
28	Oct. 10	Harrison Avenue Loan and Building Association.....

NAMES OF PRINTING AND PUBLISHING COMPANIES INCORPORATED, WITH DATE
NOVEMBER 15, 1877,

Number.	Date of filing cer- tificate.	Name of Company.
	1877.	
1	Dec. 10	The Workingmen's Publishing Co.....
2	13	The Herald Publishing Co
	1878.	
3	Jan. 29	Cincinnati Bau Vereins Anzeiger.....
4	Feb. 23	The Republican Democrat Publishing Co.....
5	April 22	Democrat Printing Co.....
6	June 7	Socialistic Printing Co
7	26	The Voice Publishing Co
8	July 8	Odd Fellow Publishing Co.....
9	Aug. 16	The National Greenback Publishing Co.....
10	31	The Newark National Advance.....

TIFICATES, LOCATION, AND AMOUNT OF CAPITAL STOCK, FROM NOV. 15, 1877, TO NOV. 15, 1878.

Location.	Amount of capital stock.	Number.
Mount Carmel	\$200,000	1
Sidney	200,000	2
Cincinnati	600,000	3
"	160,000	4
Newark	100,000	5
Cincinnati	896,000	6
London	200,000	7
Circleville	300,000	8
Urbana	150,000	9
Bellefontaine	150,000	10
Urbana	400,000	11
Cincinnati	600,000	12
"	866,666	13
"	1,000,000	14
Marietta	150,000	15
Newtown	100,000	16
Cincinnati	1,000,000	17
Hamilton county	500,000	18
Cincinnati	110,000	19
"	2,000,000	20
"	1,500,000	21
Columbus	50,000	22
Cincinnati	1,000,000	23
Dayton	270,000	24
Sidney	250,000	25
Cincinnati	1,000,000	26
"	100,000	27
"	1,200,000	28
	\$13,252,666	

**OF FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK, FROM
TO NOVEMBER 15, 1878.**

Location.	Amount of capital stock.	Remarks.	Number.
Cincinnati	\$2,000	Printing and publishing a newspaper.	1
Cleveland	200,000	" " etc.	2
Cincinnati	5,000	" " "	3
Ravenna	10,000	" " and other publications.	4
Liberty Tp., Fairfield Co .	2,500	" " etc.	5
Cincinnati	5,000	" " (daily.)	6
Cleveland	20,000	" " "	7
Columbus	2,000	" " books, magazines, etc.	8
Salem	1,000	" " a newspaper.	9
Newark	2,000	" " "	10
	\$249,500		

NAMES OF GAS COMPANIES INCORPORATED, WITH DATE OF FILING CERTIFICATE, LOCA-

Number.	Date of filing cer- tificate.	Name of Company.
	1878.	
1	Jan. 4	Citizens' Gas Light Co
2	March 27	McConnelsville Gas Co
3	June 14	The Galion Gas Light Co
4	24	The Waverly Gas Light and Coke Co
5	Aug. 29	Mechanicsburg Gas Light Co
6	31	The Marysville Gas Light Co
7	Oct. 25	Upper Sandusky Gas Light Co.....
8	26	Fostoria Gas Light Co.....

NAMES OF COMPANIES INCORPORATED FOR THE PURPOSE OF BUILDING STEAM
CERTIFICATE AND AMOUNT OF CAPITAL STOCK,

Number.	Date of filing cer- tificate.	Name of Company.
	1878.	
1	Mar. 21	Sterling Transportation Company.....

NAMES OF "COMMON CARRIER" COMPANIES INCORPORATED, WITH DATE
FROM NOVEMBER 15, 1877,

Number.	Date of filing cer- tificate.	Name of Company.
	1878.	
1	Feb. 5	Burdett Transportation Company
2	May 22	The Cincinnati Railroad Company
3	Aug. 16	The Cincinnati Tax-payers' Railway Company.....
4	Sept. 25	The Southern Transportation Company
5	Nov. 14	Ohio Valley Transportation Company.....

TION, AND AMOUNT OF CAPITAL STOCK FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Number.
Dayton	\$100,000	1
McConnelsville	30,000	2
Galion	35,000	3
Waverly	16,000	4
Mechanicsburg	15,000	5
Marysville	20,000	6
Upper Sandusky	25,000	7
Fostoria	25,000	8
	\$266,000	

BOATS, SAIL VESSELS, BARGES, CANAL BOATS, ETC., WITH DATE OF FILING
FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Remarks.	Number.
Middleport.....	\$60,000	Building steamboats, barges, etc.	1

OF FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK,
TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Remarks.	Number.
Bridgeport.....	\$100,000	Transporting freight and passengers over National pike from Bridgeport to Cambridge.	1
Cincinnati	50,000	Common carrier company.	2
"	10,000	" " "	3
"	10,000	Transporting freight on the Ohio River.	4
Portsmouth	25,000	Transporting freight on the Ohio and Mississippi Rivers.	5
	\$195,000		

NAMES OF COMPANIES WHOSE CAPITAL STOCK HAS BEEN INCREASED OR DECREASED,
AND PRESENT AMOUNT OF CAPITAL STOCK, FROM

Number.	Date of filing cer- tificate.	Name of Company.
	1878.	
1	Jan. 10	The Forest City Varnish, Oil, and Naphtha Company
2	Feb. 20	White Sewing Machine Company
3	23	Corrugated Elbow Company, of the United States
4	May 31	Cincinnati and Fayetteville Railroad Company
5	June 6	Citizens' Loan and Building Association
6	22	The Western Paint and Roofing Company
7	July 6	Marietta and Shawnee Railway Company
8	31	Toledo and Ann Arbor Railroad Company
9	Sept. 4	Lake Superior Transportation Company
10	Oct. 10	Cleveland and Saginaw Transportation Company

NAMES OF CHURCHES, SOCIETIES, AND BENEVOLENT ASSOCIATIONS
FROM NOVEMBER 15, 1877,

Number.	Date of filing cer- tificate.	Name.
	1877.	
1	Dec. 31	Grace Lodge, No. 504, I. O. O. F
	1878.	
2	Feb. 8	Representative Lodge, No. 24, Ancient Order United Workmen
3	March 7	Columbus Female Benevolent Society
4	18	Swanton Lodge, No. 528, I. O. O. F
5	April 13	Onarga Tribe, No. 87, Independent Order Red Men
6	25	Mifflin Lodge, No. 518, I. O. O. F
7	30	Cambridge Lodge, No. 301, I. O. O. F
8	June 20	Allen Lodge, No. 223, I. O. O. F
9	July 24	Perry Lodge, No 87, Knights of Pythias
10	Aug. 8	Ladies' Lodge of the Daughter Israel
11	26	Fulton Encampment, No. 197, I. O. O. F
12	Oct. 12	Belmont Turners and Beneficial Society
13	Feb. 26	Meigs quarterly meeting
14	May 1	St. Paul's Church
15	Oct. 23	Christian Church

WITH DATE OF FILING CERTIFICATE, THE AMOUNT INCREASED OR DECREASED,
NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

Location.	Amount increased.	Amount decreased.	Present amount of capital stock.	Number.
Cleveland	\$150,000 00	.....	\$250,000 00	1
Cleveland	12,500 00	.....	112,500 00	2
Cincinnati .....	.....	\$200,000 00	200,000 00	3
Cincinnati	630,000 00	.....	750,000 00	4
London	40,000 00	.....	240,000 00	5
Cincinnati .....	.....	50,000 00	50,000 00	6
Marietta.....	300,000 00	.....	750,000 00	7
Toledo	750,000 00	.....	1,500,000 00	8
Cleveland .....	.....	99,700 00	50,300 00	9
Cleveland	17,700 00	.....	24,100 00	10
	\$1,900,200 00	\$349,700 00	\$3,926,900 00	

INCORPORATED, WITH DATE OF FILING CERTIFICATE, LOCATION, ETC.,
TO NOVEMBER 15, 1878.

Location.	Remarks.	Number.
Union	1
Cincinnati	2
Columbus	Amended certificate.....	3
Swanton	4
Coshocton	5
Gahanna	6
Cambridge	7
Lima	8
Massillon	9
Cincinnati.....	10
Delta	11
Bellaire	12
Gallia county.....	13
StEubenville	14
Union	15

**NAMES OF COMPANIES INCORPORATED FOR VARIOUS PURPOSES, NOT INCLUDED IN
AMOUNT OF CAPITAL STOCK, FROM**

Number.	Date of filing cer- tificate.	Name of Company.	Location.
	1877.		
1	Nov. 19	The Cincinnati Base Ball Association	Cincinnati
2	Dec. 19	Cincinnati Building Company	Cincinnati
3	19	Millville Public Hall Association	Millville
	1878.		
4	Jan. 14	The Tri State Fair Association	Toledo
5	18	Consolidated Tank Line Company	Cincinnati
6	24	The Mohawk Brown Stocking Base Ball Associ'n.	Cincinnati
7	26	Builders' Exchange	Cincinnati
8	Feb. 6	The Portage County Park Association	Ravenna
9	8	The E. D. Albro Company	Cincinnati
10	March 2	The American District Telegraph Company	Cincinnati
11	12	Columbus Driving Park Association	Columbus
12	April 3	Home Detective Association	Tremont City
13	6	The Knox County Hedge Company	Mt. Vernon
14	9	The Homeopathic Medical Society of Ohio	Columbus
15	19	The Green Township Harvest Home Association ..	Hamilton county
16	30	Connotton Valley Telegraph Company	Minerva and Leesville
17	May 7	Wool Growers' Exchange	Minerva and Leesville
18	8	Tiffin Water Works	Tiffin
19	20	Geneva Mercantile Company	Geneva
20	24	The Dayton Hedge Company	Dayton
21	June 7	The Great Western Hedge Company	Shreve
22	10	The Winon's Point Shooting Club	Ottawa county
23	10	The Norwood Hall Association	Norwood
24	15	Ashland County Hedge Company	Ashland
25	20	The Zanesville Academy of Medicine	Zanesville
26	22	The Wayne County Hedge Company	Wooster
27	July 6	Union Military and Band Tournament Association	Union county
28	15	The Stark County Hedge Company	Canton
29	Aug. 1	New Orleans Wrecking Company	Cincinnati
30	Sept. 21	The Lake Erie Ice Company	Hamilton
31	25	The Cleveland Skating Park and Base Ball Ass'n.	Cleveland
32	25	The Ohio State Society for the Prevention of Cruelty to Animals (supplemental certificate) ..	Cleveland
33	Oct. 8	Warren Water Works Company	Warren
34	10	The Castalia Sporting Club	Cleveland
35	12	The Warren Relief Water Works Company	Warren
36	29	Northern Ohio Ice Company	Sandusky
37	30	The Columbus Gallery of Fine Arts	Columbus
38	Nov. 8	Huron County Hedge Company	Norwalk
39	14	Hamilton Water Works	Hamilton

OTHER CLASSIFICATIONS, WITH DATE OF FILING CERTIFICATE, LOCATION, AND
NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

Purpose of Organization.	Amount of capital stock.	Number.
Constructing a park for lawful sports.....	\$10,000	1
Building tenement-houses, etc	25,000	2
Building a hall for public meetings, etc.....	1,000	3
Holding fairs, etc.....	20,000	4
Dealing in oils, merchandise, etc	200,000	5
Constructing park for ball-playing, skating, etc.....	1,500	6
Board of trade	-----	7
Holding fairs, etc.....	10,000	8
General lumber business	150,000	9
Magnetic telegraphy.....	75,000	10
Horse-racing	10,000	11
Detection and punishment of criminals and thieves	100	12
Planting and growing hedges	6,000	13
Advancement of medical knowledge.....	500	14
Holding festivals and other sports.....	2,000	15
Magnetic telegraphy.....	5,000	16
Dealing in wool	50,000	17
Supplying Tiffin city with water	100,000	18
Dealing in boots and shoes, woolen cloths, etc.....	20,000	19
Planting and growing hedges.....	150,000	20
Planting and growing hedges.....	1,000	21
Yachting, hunting, fishing, and other sports	3,000	22
Building public hall	4,000	23
Growing hedges	15,000	24
Advancement of medical knowledge.....	500	25
Growing hedges	15,000	26
Cultivating taste for music and military science.....	15,000	27
Growing hedges	15,000	28
Wrecking boats and vessels	10,000	29
Cutting and dealing in ice	50,000	30
Ball-playing, skating, and other sports	5,000	31
.....	-----	32
Supplying Warren with water.....	100,000	33
Hunting, fishing, and other sports	750	34
Supplying Warren with water	75,000	35
Cutting and dealing in ice	10,000	36
Promotion of science and fine arts	-----	37
Growing hedges	15,000	38
Supplying city of Hamilton with water.....	150,000	39
	\$1,320,350	

**NAMES OF COMPANIES INCORPORATED FOR VARIOUS PURPOSES, NOT INCLUDED IN
AMOUNT OF CAPITAL STOCK, FROM**

Number.	Date of filing cer- tificate.	Name of Company.	Location.
	1877.		
1	Nov. 19	The Cincinnati Base Ball Association	Cincinnati
2	Dec. 19	Cincinnati Building Company	Cincinnati
3	19	Millville Public Hall Association	Millville
	1878.		
4	Jan. 14	The Tri State Fair Association	Toledo
5	18	Consolidated Tank Line Company	Cincinnati
6	24	The Mohawk Brown Stocking Base Ball Associ'n.	Cincinnati
7	26	Builders' Exchange	Cincinnati
8	Feb. 6	The Portage County Park Association	Ravenna
9	8	The E. D. Albro Company	Cincinnati
10	March 2	The American District Telegraph Company	Cincinnati
11	12	Columbus Driving Park Association	Columbus
12	April 3	Home Detective Association	Tremont City
13	6	The Knox County Hedge Company	Mt. Vernon
14	9	The Homeopathic Medical Society of Ohio	Columbus
15	19	The Green Township Harvest Home Association ..	Hamilton county
16	30	Connotton Valley Telegraph Company	Minerva and Leesville
17	May 7	Wool Growers' Exchange	Minerva and Leesville
18	8	Tiffin Water Works	Tiffin
19	20	Geneva Mercantile Company	Geneva
20	24	The Dayton Hedge Company	Dayton
21	June 7	The Great Western Hedge Company	Shreve
22	10	The Winon's Point Shooting Club	Ottawa county
23	10	The Norwood Hall Association	Norwood
24	15	Ashland County Hedge Company	Ashland
25	20	The Zanesville Academy of Medicine	Zanesville
26	22	The Wayne County Hedge Company	Wooster
27	July 6	Union Military and Band Tournament Association	Union county
28	15	The Stark County Hedge Company	Canton
29	Aug. 1	New Orleans Wrecking Company	Cincinnati
30	Sept. 21	The Lake Erie Ice Company	Hamilton
31	25	The Cleveland Skating Park and Base Ball Ass'n. .	Cleveland
32	25	The Ohio State Society for the Prevention of Cruelty to Animals (supplemental certificate) ..	Cleveland
33	Oct. 8	Warren Water Works Company	Warren
34	10	The Castalia Sporting Club	Cleveland
35	12	The Warren Relief Water Works Company	Warren
36	29	Northern Ohio Ice Company	Sandusky
37	30	The Columbus Gallery of Fine Arts	Columbus
38	Nov. 8	Huron County Hedge Company	Norwalk
39	14	Hamilton Water Works	Hamilton

**OTHER CLASSIFICATIONS, WITH DATE OF FILING CERTIFICATE, LOCATION, AND
NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.**

Purpose of Organization.	Amount of capital stock.	Number.
Constructing a park for lawful sports.....	\$10,000	1
Building tenement-houses, etc	25,000	2
Building a hall for public meetings, etc.....	1,000	3
Holding fairs, etc.....	20,000	4
Dealing in oils, merchandise, etc	200,000	5
Constructing park for ball-playing, skating, etc.....	1,500	6
Board of trade	-----	7
Holding fairs, etc.....	10,000	8
General lumber business	150,000	9
Magnetic telegraphy.....	75,000	10
Horse-racing	10,000	11
Detection and punishment of criminals and thieves	100	12
Planting and growing hedges	6,000	13
Advancement of medical knowledge.....	500	14
Holding festivals and other sports.....	2,000	15
Magnetic telegraphy.....	5,000	16
Dealing in wool	50,000	17
Supplying Tiffin city with water	100,000	18
Dealing in boots and shoes, woolen cloths, etc.....	20,000	19
Planting and growing hedges.....	150,000	20
Planting and growing hedges.....	1,000	21
Yachting, hunting, fishing, and other sports	3,000	22
Building public hall	4,000	23
Growing hedges	15,000	24
Advancement of medical knowledge.....	500	25
Growing hedges	15,000	26
Cultivating taste for music and military science.....	15,000	27
Growing hedges	15,000	28
Wrecking boats and vessels	10,000	29
Cutting and dealing in ice	50,000	30
Ball-playing, skating, and other sports	5,000	31
.....	-----	32
Supplying Warren with water.....	100,000	33
Hunting, fishing, and other sports	750	34
Supplying Warren with water	75,000	35
Cutting and dealing in ice	10,000	36
Promotion of science and fine arts	-----	37
Growing hedges	15,000	38
Supplying city of Hamilton with water.....	150,000	39
	\$1,320,350	

MISCELLANEOUS CORPORATIONS.

RAILROAD CONSOLIDATIONS.

May 8, 1878. Pittsburgh and Lake Erie Railroad Company: Formed by the consolidation of the Youngstown and Pittsburgh Railroad Company with the Pittsburgh and Lake Erie Railroad Company. Capital stock, \$2,000,000.

May 28, 1878. The Toledo and Ann Arbor Railroad Company: Formed by the consolidation of the Toledo and State Line Railroad Company with the Toledo and Ann Arbor Railroad Company, forming a continuous line of road from Toledo, Ohio, to Ann Arbor, Michigan. Capital stock, \$450,000.

July 3, 1878. Oakwood Street Railway Company: Formed by the consolidation of the Dayton View Street Railway Company with the Oakwood Street Railway Company of Dayton, Ohio.

RAILROAD REORGANIZATIONS AND CHANGE OF NAME.

October 11, 1878. Ashtabula and Pittsburgh Railway Company: Reorganization and change of name from Ashtabula, Youngstown and Pittsburgh Railroad Company. Capital stock, \$1,700,000.

November 27, 1877. Waynesville, Port William and Jeffersonville Railroad Company: Change of name to Columbus, Washington and Cincinnati Railroad Company. Decree of court.

OTHER CHANGES OF NAME.

June 14, 1878. The Newark and Shawnee Coal and Iron Mining Company: Change of name to Iron Point Mining Company. Decree of court.

June 1878. The Runnymede Land, Loan and Building Association: Change of name to The United Savings Building Association. Decree of court.

July 27, 1878. St. Clair Street Plank Road Company: Change of name to St. Clair Street Gravel Road Company. Decree of court.

CHANGE OF TIME OF HOLDING ANNUAL MEETINGS.

January 9, 1878. Whitman and Barnes Manufacturing Company: Change of time for holding annual meetings to first Wednesday in September.

January 21, 1878. Cleveland Malleable Iron Company: Change of time for holding annual meetings to first Monday after second Wednesday in September.

April 27, 1878. Milburn Wagon Company: Change of time for holding annual meetings to first Tuesday in February.

June 19, 1878. Cincinnati Musical Festival Association: Change of time for holding annual meetings to first Monday in October.

July 12, 1878. Scioto Valley Railway Company: Change of time for holding annual meetings to second Thursday in February.

CHANGE OF OFFICE.

August 7, 1878. Mutual Protective Association of Patrons of Husbandry: Change of office from Kenton to Columbus, Ohio.

SALE OF CORPORATE FRANCHISE.

April 8, 1878. Westerville Turnpike Company: Sale of corporate franchise.

DISSOLUTION OF COMPANY.

January 21, 1878. Columbus Mutual Fire Insurance Company: Dissolution.

NAMES OF CITIES AND VILLAGES INCORPORATED,

AND TO WHICH ADDITIONAL TERRITORY HAS BEEN ANNEXED, WITH DATE OF FILING
COPIES OF PROCEEDINGS AND PLATS, ALSO SURRENDER OF CORPORATE PRIVILEGES,
FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

Number.	Date of filing.	Name of City or Village.	County.	Remarks.
1	1877. Dec. 5	Delta	Fulton	Annexation.
2	1878. Jan. 9	DeGraff	Logan	Annexation.
3	Feb. 5	Proctorville	Lawrence	General purposes.
4	Feb. 12	East Liverpool	Columbiana	Annexation.
5	Feb. 15	Kingston	Ross	Annexation.
6	Mar. 8	St. Bernard	Hamilton	General purposes.
7	Mar. 22	Vanlue	Hancock	General purposes.
8	May 8	Kent	Portage	Annexation.
9	May 17	Plainfield	Coshocton	General purposes.
10	July 26	Beaver Dam	Allen	General purposes.
11	Aug. 13	Bloomingsburgh	Fayette	Annexation.
12	Nov. 1	Fletcher	Miami	Annexation.

STATIONERY ACCOUNT.

NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

STATIONERY ACCOUNT.

From whom purchased.	Double super-royal—reams.	Cost.	Super-royal—reams.	Cost.	Cover-paper—reams.	Cost.
On hand	44	\$317 47	4 87-96	\$35 19		
Comly and Francisco	20	76 98	3	45 00		
Shults & Manning	96042	50,136 84				
Cleveland Paper Company					97	7-90
Nevins & Myers					17-48	\$439 92
						5 53
Totals	96086	\$50,531 29	7 87-96	\$100 19	97 168-940	\$445 45
To whom issued.						
House of Representatives	3	\$11 38			17-48	\$5 53
Nevins & Myers	8340	43,381 48			97	7-90
Bindery	123	652 48				439 92
Brand & Co	330	1,670 40				
Elfrits & Winters	330	1,670 40				
Board of Agriculture						
Auditor of State			3	\$45 00		
Supreme Court Clerk						
" Commission						
School Commissioner						
Secretary of State						
Supreme Court						
State Board Charities						
Codifying Commission						
Attorney-General						
Law Library						
Senate						
Insurance Department						
Adjutant General						
Railroad Commissioner						
Bureau of Labor Statistics						
Treasurer of State						
Board of Public Works						
Executive Department						
State Fish Commissioners						
Supervisor Public Printing						
Total issued	9106	\$47,586 14	3	\$45 00	97 168-940	\$445 45
On hand	5032	\$2,945 15	4 87-96	\$55 19		

STATIONERY ACCOUNT—Continued.

Double flat-cap—reams.		Cost.	Flat-cap—reams.		Cost.	Flat-letter—reams.		Cost.	Flat-post—reams.		Cost.	Demy-paper—reams.		Cost.
4 83-80		\$21 42	2		\$6 00	10 1/2		\$21 00	5 35-48		\$16 64	3 15-94		\$23 37
85		370 50	8 1/2		94 90	20	7-120	69 00	20		96 00	12 1/2		70 00
204 3-20		1,819 86	310 379-480		998 54	50		110 76	93		300 48	37 1/2		188 66
												1		7 20
383 7-16		\$2,018 18	331 138-480		\$1,029 44	89 67-120		\$201 66	118 35-48		\$412 12	43 11-94		\$289 42
35-96		\$1 50	2 71-160		7 53	77-120		\$1 52	1-160		\$ 01	10 13-15		\$77 06
210 51-60		1,431 73												
75 55-96		548 81	68 1/2		518 88	8 57-120		18 48	1 7-12		5 19	2		13 80
25-48		2 61	1 27-48		5 03	1 13-48		9 23	3 87-480		9 25	2 11-96		11 30
1 55-96		7 67	77 73-480		286 01	10 77-480		29 96	70 97-480		226 44	3		20 96
1 83-96		8 05	2 30-48		7 56	9 119-940		21 07	7-96		24	7 179-480		48 25
11-96		49										3		15 40
10-96		45				19-24		1 75				4		25 96
10-96		45				11-24		1 01	1-12		28	17-48		2 38
7-16		1 67	3 121-940		13 42	1 51-96		3 39				7 13-16		54 19
			28 139-480		84 33	13 15-16		30 69	1 23-32		5 69	1 5-24		3 48
			3 1-24		8 94	10 153-160		29 07	19 383-480		42 22			79
			1 1/2		3 80	1 5-96		9 33	25-96		68			
			4 15-24		13 64	3 79-96		8 46				28-240		80
			1 7-24		3 77	9 5-96		4 31	13-120		36	5-16		2 10
			26		76 39	1 9-48		9 65	8 13-30		27 81			
			81-940		1 01	17 1-30		37 79	1 13-180		3 59	1 157-480		8 81
						1 1/2		1 11						
						11-15		1 61						
201 61-160		\$2,003 83	220 77-120		\$1,026 10	84 37-120		\$190 25	99 497-480		\$321 89	42 95-96		\$283 52
1 149-160		\$3 35	811-480		\$1 34	5 1/2		11 41	18 403-480		\$91 23	15-32		\$5 90

STATIONERY ACCOUNT—Continued.

From whom purchased.	Imperial—rems.	Cost.	Melium—rems.	Cost.	Legal cap—rems.	Cost.
On hand			3 50-160	\$37 35	134	\$66 37
Stebert & Lilley	35-96	\$10 05				
Nevins & Myers	31-60	77 43				
Comly & Francisson		54 00				
Cleveland Paper Co.	3	87 00	94	339 71		
J. R. Mills & Co.					46	227 00
Short & Furman					6	37 00
Robison, Savage & Co.					45	231 00
Willatch, Baldwin & Co.						
Geo. W. Gleason						
Elliott Jones & Co.						
Totals	7 141-160	\$229 38	27 51-160	\$677 06	1124	\$535 37
To whom issued.						
Auditor of State	3 22-240	\$64 90	1 19-34	\$19 30	1	\$4 00
Treasurer of State	47-48	25 00	1-16	70		
Senate	3-8	10 87	2 251-420	26 13	108	48 44
Insurance Department	1 3-32	31 55	2 15-16	29 35		1 00
Fund Commissioners						2 25
House of Representatives			2 5-96	21 62	224	129 43
Supreme Court Clerk			3 1-48	30 15	1	4 00
Executive Department					22	14 68
Attorney-General		25-96	2 32		11	56 95
Agricultural Department						
Secretary of State			2 167-420	22 54	41	18 58
Railroad Commissioner			2 5-8	25 58		2 25
Bindery						
Adjutant-General			7 20	3 36		3 25
Supreme Court Commission					62	36 25
Board of Public Works					1	4 00
State Fish Commissioners						2 25
Supreme Court					16	6 25
Supreme Court Reporter					2	9 00
Codifying Commission					3	14 40
Board of State Charities					1	2 25
School Commissioner						
Bureau Labor Statistics						
Law Library						
State Library						
Supervisor Public Printing						
Total issued	5 91-160	\$169 33	17 233-240	\$181 34	783	\$361 17
On hand	2 15-48	\$67 06	9 167-420	\$65 73	338	\$174 20

STATIONERY ACCOUNT—Continued.

Footings—rems.	Cost.	Letter—rems.	Cost.	Note—rems.	Cost.	Post-office—rems.	Cost.	Memoranda—rems.	Cost.
33 8-90	\$130 64	11½	\$38 87	7	\$19 10	3 13-90	\$18 93	17 12-90	\$179 03
1	1 75	1	1 50	1	1 50	5	25 50		
		47	151 25	100	163 00	10	50 00	90	201 43
		10	30 00	80	35 00			1-2	4 50
		10	30 00	90	35 00	8	28 00		
		10	30 00	90	30 00	3	15 00		
		1	2 25	2	5 50			1-2	7 44
				1	1 35				
33 9-10	\$123 59	80½	\$283 87	177	\$283 45	29 13-90	\$136 75	29 12-90	\$385 40
1	\$1 75	34	\$11 75	9	\$16 48	2 3-10	\$13 63	2 9-90	\$32 96
1		1	87	23	4 75	1	5 00	2-10	3 63
1	1 67	6½	26 06	19½	26 94	4 3-5	22 80	1 7-10	21 61
		1		1	78	2	10 00	1-2	8 23
8	30 66	90½	1 50	1	1 74			4-5	8 25
		2	62 38	52	63 36	10 4-5	63 96	3 1-10	34 94
		5	7 00	2	3 50			13-90	10 11
		1	16 40	24	6 25	1-4	56	1-2	5 79
		1	3 00	4	7 00	1-5	1 08	1-10	1 49
								1-2	8 28
2	8 00	4½	14 62	9½	15 85	3 3-20	10 75	9 12-90	118 43
		1½	4 09	2	1 23	1	3 25		
		3½	11 86	34	5 50			2	11 50
		2½	5 22	6	10 11	3-4	3 57	1-20	67
		1	3 45	5	8 73	1-10	50	1-2	7 36
		9	6 00	1	1 75				
		2½	8 18	4	7 85	1-4	1 25	1-4	2 85
		7	26 25	2	3 48	1	4 10	1 1-5	14 42
		2½	7 50	1½	2 37	3-4	3 75	1-20	30
1½	5 67	2½	8 17	1	1 75			2 9-5	25 11
1	4 00	1	1 50	1	1 75	1-2	2 55		
		1	3 00					1-4	4 40
				2	3 15				
13½	\$51 75	72½	\$231 81	131	\$215 01	29 13-90	\$136 75	27 1-4	\$323 96
20½	\$60 84	17½	\$52 06	46	\$67 54			11 7-15	\$51 42

STATIONERY ACCOUNT—Continued.

From whom purchased.	Letters—sheets.	Cost.	Bond—sheets.	Cost.	Wrapping—reams.	Cost.	Oil paper—sheets.	Cost.
On hand	760	\$39 08	825	\$5 69			9	\$1 68
Cleveland Paper Company	1,980	72 00			10	\$45 12		
Comly & Francisco			1,500	37 50				
Central Ohio Paper House					5-48	\$ 65		
Robison Savage & Co							30	5 25
J. R. Mills & Co								
Ehrt & Forman								
Whitack Baldwin & Co								
Hebert & Lilley								
W. J. Morgan & Co								
Strobridge & Co								
G. W. Gleason								
Elliott Jones & Co								
I. C. Aston								
Total	2,680	\$111 08	1,725	\$43 12	10 5-48	\$50 97	45	\$6 83
To whom issued.								
Codifying Commission	68	\$2 30						
Board of Public Works	21	1 00	210	\$5 25			2	\$0 43
Fund Commissioners	24	1 44					6	87
House of Representatives	300	17 82						
Auditor of State	75	3 00	160	4 00				
Adjutant General	92	4 34	1,305	32 62				
Executive Department	139	5 90					3	50
Secretary of State	163	7 43			10	\$45 12		
Senate	178	7 91						
Supreme Court	30	1 35						
Supreme Court Commission	30	1 35						
Treasurer of State	144	6 31						
Insurance Department	146	5 16						
Attorney General	21	95					4	50
School Commissioner	28	1 16						
Supervisor Public Printing	21	80	50	1 25			11	62
State Printers	24	80						
Railroad Commissioner	79	2 70					4	50
Supreme Court Clerk	61	2 64						
Board of State Charities	14	58						
State Library	18	75			5-48	\$ 65		
Law Library	6	25						
Board of Agriculture	18	40						
State Fish Commissioners								
Bureau Labor Statistics								
Total issued	1,808	\$74 68	1,725	\$43 12	10 5-48	\$50 97	24	\$3 67
On hand	812	\$34 40					21	\$3 98

STATIONERY ACCOUNT—Continued.

Mailed—packages.	Cost.	Plain envelopes—number.	Cost.	Official envelopes—number.	Cost.	Letter heads—reams.	Cost.	Pencils (black)—gross.	Cost.
109	\$19 03	33 500	\$189 09	20,000	\$157 80	60½	\$548 20	72 11 34	\$401 30
		5 000	42 34						
		17 500	73 25						
		18 000	30 30						
413	85 60	43 000	105 75	25,000	122 95	11½	75 00	11	72 00
		20 000	33 50						
		500	47 50	57 000	395 50	53½	300 25		
			6 25		19 50				
								1 1 14	0 60
								1 1 12	1 35
								5 17 34	20 05
721	\$115 30	177 500	\$420 74	105 000	\$605 75	123 1 6	\$1 022 54	90½	\$370 80
219	\$1 02	3,900	\$14 45	2 000	13 00		37 50	3 1 12	\$17 57
		2 750	9 20						3 72
		1,250	4 00						1 04
171	25 50	13,700	41 02	30 400	162 79	43½	400 47	19½	106 14
6	24	5,000	13 96	3 000	19 50			5 1 6	20 00
22	7 00	14 000	49 64			6	42 00	1	11 10
20	4 00	8,950	53 42	15 0 0	165 00	5	85 00	2	19 01
54	7 50	4 300	15 93	3 350	96 42	1	4 55	1 123-144	45 70
103	27 00	6 000	26 19	8 500	40 22	10½	123 92	2	16 70
15	2 22	2 350	6 50					3	5 00
15	2 22	1 500	4 06					1	6 20
		2 250	7 16	8 000	55 50	5	25 00	1 1 4	4 17
6	1 00	1 000	2 50	10,000	10 00	24½	100 00	1	8 23
12	1 00	1 250	2 69	6 000	43 50	3	30 75	1	21 54
		1 500	4 12						
		2,000	9 05					2 1 36	
6	50	1,250	2 78	3 000	12 00	5	40 00	1 1 4	8 04
12	1 00	1 750	6 12	1,000	7 20	6½	50 00	1 1 4	5 55
2	25	2 500	6 13					1 1 4	80
		250	1 13					1 1 2	40
		500	1 25						
6	84	1 500	6 66						
		1 750	3 76						
		4 000	16 08	3,000	25 50				
500	\$85 50	55,900	\$310 13	93 250	\$606 34	117 19 24	\$805 19	55 41-144	\$300 13
141	\$19 74	91,800	\$178 61	21 750	\$29 63	7½	\$64 35	25 7 144	\$201 07

STATIONERY ACCOUNT—Continued.

From whom purchased.	Camine—number.	Cost.	Steel pens—gross.	Cost.
On hand	139	\$13 06	59½	\$35 92
Rohlsen, Savage & Co	73	7 00		
J. R. Mills & Co	222	22 3½	220½	241 06
G. W. Gleason			6	5 73
Short & Forman			10	6 50
DeHaan & Co.			40	40 00
Stebert & Lilley				
E. O. Randall & Co				
Elliott Jones & Co				
T. C. Aston				
C. R. Hodge				
W. M. Savage				
Willatch, Baldwin & Co				
Totals	493	\$49 36	376	\$320 22
To whom issued.				
Supreme Court Clerk	19	\$1 08	9	\$11 00
House of Representatives	96	8 94	68 7-12	50 32
Board State Charities	2	18	2	1 53
Treasurer of State	25	2 17	8 1-12	18 80
Executive Department			10 7-12	19 99
Adjutant General	30	2 76	16	14 34
Auditor of State			14	14 80
Supreme Court			10	12 20
Secretary of State	14	1 17	10 4-12	11 10
State Library			1	55
Senate	32	2 91	53 1-12	32 20
Fund Commissioners			1 1-6	2 20
Codifying Commission	52	4 73	9	7 75
Attorney-General	1	08	11 1-12	10 31
School Commissioners			3	1 80
Insurance Department	18	2 07	4 1-12	3 95
Railroad Commissioner	7	80	1	60
State Fish Commissioners				
Law Library			2	1 20
Supreme Court Commission				
Supervisor Public Printing	26	2 43	4	2 80
Board of Public Works	1	08	3	1 80
Board of Agriculture			2	1 20
Supreme Court Reporter				
Total issued	316	\$32 88	249	\$224 67
On hand	177	\$13 48	127	\$104 55

STATIONERY ACCOUNT—Continued.

Quills—dozen.	Cost.	Balling—number.	Cost.	Gold—number.	Cost.	Rulers—number.	Cost.	Box-wood—number.	Cost.	Metal erasers—number.	Cost.
5 1-6	\$27 17	47	\$11 70	.....	.....	24	\$10 01	1	\$0 75	16	\$3 62
20	130 00	24	21 60	.....	.....	.....	.....	12	3 00	24	6 00
.....	.....	.....	.....	.....	.....	.....	.....	180	45 00	212	59 84
.....	.....	.....	.....	.....	.....	.....	.....	12	3 00	24	6 00
.....	.....	1	2 50	1	\$4 00	6	4 50	.....	.....	.....	.....
.....	.....	1	90	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	10	5 10	1	3 50	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	1	4 50	.....	.....	.....	.....	200	54 86
.....	.....	.....	.....	15	59 00	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	1	3 50	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	12	3 00	24	6 00
25 1-6	\$157 17	83	\$41 80	19	\$74 50	30	\$14 51	217	\$54 75	500	\$136 32
.....
9 11-12	\$64 16	6	30	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	8	6 45	4	\$16 00	24	\$10 01	35	\$8 75	166	\$43 92
1 1-12	55	1	90	.....	.....	.....	.....	1	25	1	30
.....	.....	.....	.....	.....	.....	.....	.....	2	1 00	1	24
1/4	1 62	6	5 40	.....	.....	.....	.....	1	25	2	55
.....	.....	2	1 00	.....	.....	.....	.....	1	25	4	1 08
.....	.....	1	90	5	20 00	.....	.....	2	50	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	2	50	.....	.....
1/4	1 63	1	90	6	23 00	.....	.....	6	1 50	4	1 08
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	30
6	35 52	11	8 35	2	8 00	.....	.....	79	19 75	72	19 20
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	48
.....	.....	1	05	.....	.....	.....	.....	1	25	1	30
.....	.....	1	90	.....	.....	.....	.....	.....	.....	1	25
1-6	1 10	3	3 50	.....	.....	.....	.....	.....	.....	1	30
1-6	1 08	.....	.....	.....	.....	.....	.....	1	25	.....	.....
.....
1-6	69	.....	.....	.....	.....	.....	.....	1	25	.....	.....
.....
1-6	1 08	.....	.....	1	4 00	.....	.....	1	25	.....	.....
.....	.....	1	90	1	3 50	.....	.....	.....	.....	.....	.....
.....
.....
17 1-6	\$107 43	42	\$29 55	19	\$74 50	24	\$10 01	133	\$33 75	258	\$68 26
8	\$49 74	41	\$12 25	.....	.....	6	\$4 50	84	\$21 00	242	\$68 06

STATIONERY ACCOUNT—Continued.

From whom purchased.	Rubber-number.	Cost.	Fridge-bottles.	Cost.	Copying-bottles.	Cost.
On hand	27	\$13 34				
Winstach, Baldwin & Co.	72	9 45	285	\$144 52	20	\$16 60
J. R. Mills & Co.	408	52 70				
Short & Forman	72	9 45				
Robison, Savage & Co.	72	9 45				
Republic Printing Co.			22	28 50		
E. O. Randall & Co.				2 25		
I. C. Aston				2 23		
G. W. Gleason					12	10 00
Elliott Jones & Co.						
Dessauer Manufacturing Co.						
R. H. Gardner & Co.						
C. Houston						
Kilbourne, Jones & Co.						
McCane, Lennis & Stoner						
Totals	721	\$94 39	363	\$177 82	32	\$26 60
To whom issued.						
Supreme Court Clerk	12	\$1 63	7	\$3 50		
Executive Department	14	2 15	5	2 50	2	\$1 66
Auditor of State	37	4 99	27	11 00		
Supreme Court Commission	40	5 24	9	4 50		
Supreme Court	46	5 37	10	4 78		
Treasurer of State	27	4 96	6	3 00	1	84
Secretary of State	16	2 34	12	7 10	2	1 60
Senate	96	11 40	32	15 97		
House of Representatives	310	42 32	70	26 24		
Adjutant General	10	1 66	2	4 53		
Insurance Department	12	2 00	6	3 18	6	4 98
Codifying Commission	18	2 57	12	6 00		
Board of Public Works	12	1 57	3	1 53	1	84
Fund Commissioners	6	1 00				
State Board of Charities	1	15	2	1 00		
State Library	1	17	5	3 00		
School Commissioner	1	17	2	1 53	1	84
State Fish Commissioners						
Railroad Commissioner			7	3 42	2	1 66
Bureau of Labor Statistics			3	1 50		
Attorney General			12	5 46		
Supervisor Public Printing			1	50		
Board of Agriculture			4	2 00		
Supreme Court Reporter			2	1 00		
Law Library			1	22		
Total issued	659	\$89 00	249	\$123 54	15	\$19 48
On hand	62	\$5 39	114	\$54 28	17	\$14 12

STATIONERY ACCOUNT—Continued.

Caroline—bottles.	Cost.	Mumlage—bottles.	Cost.	Mumlage—plates.	Cost.	Salmore and shears—pairs.	Cost.	Ink stands—number.	Cost.
88	\$78 80	614	\$100 88	8½	\$3 25	153	\$74 12	327	\$81 53
144	12 00							104	63 00
								324	145 80
11	8 62	576	48 00	90	5 80			5	5 60
				80	30 30	563	377 17		
						973	23 21		
243	\$99 62	1,100	\$148 88	106½	39 35	969	\$544 50	760	\$294 93
2	\$1 87			½	25	6	\$2 37	2	34
3	3 10	16	\$2 44	1	39	11	4 53	2	87
2	2 58	24	3 84	6	2 50	12	7 87	6	1 32
		12	1 92			15	7 50		
		12	1 92			17	9 60	1	1 00
1	1 15	18	2 88			5	1 30		
18	3 00	9	1 40	66	23 93	18	6 72	1	22
3	2 75	144	24 44	1½	58	179	77 05	105	25 66
2	8 63	196	33 02	3	1 06	294	133 92	264	92 79
5	1 22	13	3 06			8	3 84	5	1 78
11	3 93	12	1 09	½	19	9	9 50	6	1 32
		7	1 12	4	1 55	3	1 02	4	45
1	87	7	1 12			4	1 87	3	69
1	87	6	96			1	46		
1	87	3	44			1	38		
		1	16	2	90	2	1 75		
1	1 15	24	4 08			1	33		
		12	1 80			11	4 62	1	29
1	06							4	1 00
2	1 23	9	1 44			4	9 17	2	2 00
		9	32			3	1 04	2	90
1	26			6	2 00	1	33	6	1 32
								2	1 60
55	\$35 19	599	\$87 98	80½	\$33 35	579	\$272 07	413	\$145 26
188	\$54 44	681	\$61 60	16	\$6 00	410	\$272 43	347	\$149 65

STATIONERY ACCOUNT—Continued.

From whom purchased.	Pan holders—number.	Cost.	Paper folders—number.	Cost.	Letter books—number.	Cost.
On hand	367	\$8 39	39	\$10 67	7	\$12 47
Wilstach, Baldwin & Co	790	15 00	24	7 00		
J. R. Mills & Co	1152	29 00	168	74 00	12	30 75
Short & Forman	790	13 75	24	7 00		
Robison, Savage & Co	768	24 25	24	7 00		
Geo. W. Gleason	■	3 46	9	70		
Elliott Jones & Co	12	3 00			3	5 00
American Bank Note Co						
J. McAvoy						
C. Huston						
R. H. Gardner & Co						
Totals	3751	\$89 85	274	\$106 37	22	\$51 22
To whom issued.						
Supreme Court Commission	68	\$2 70	9	\$4 50		
Supreme Court	81	5 04	9	4 50		
Supreme Court Clerk	7	1 50	1	50	1	\$1 50
Senate	659	14 98	48	15 34		
House of Representatives	1482	28 35	156	56 33		
Codifying Commission	85	1 97				
Executive Department	30	50			6	10 31
Insurance Department	■	1 31			3	5 25
Adjutant-General	60	1 18	1	50	2	8 00
Auditor of State	216	4 50	6	3 00	3	5 50
Secretary of State	62	5 73	12	6 00	4	6 06
Supervisor Public Printing	4	87			1	2 00
State Board of Charities	1	09				
Board of Public Works	24	45			1	2 50
Law Library	1	23				
Fund Commissioners	12	25	1	50		
Board of Agriculture	24	46				
Treasurer of State	12	23				
State Library	6	11				
Attorney-General			2	70	3	5 25
Bureau Labor Statistics	4	11				
School Commissioner					2	3 50
Railroad Commissioner	12	22			1	1 25
Total issued	2886	\$70 24	245	\$91 87	28	\$51 22
On hand	665	\$19 61	29	\$14 50		

STATIONERY ACCOUNT—Continued.

Commodities—number.	Cost.	Carpet brooms—number.	Cost.	Wisp brooms—number.	Cost.	Large sponges—number.	Cost.	Small sponges—number.	Cost.
1366	\$66 28	67	\$16 75	9	\$0 35	11	\$5 56	156	\$11 20
15,000	900 00	48	12 00	79	18 00	48	94 00	129	12 00
						2	1 20		
14,366	\$666 28	115	\$28 75	81	\$18 35	61	\$30 70	276	\$23 20
				3	\$0 75				
		2	\$0 50			2	\$1 00	6	\$5 60
		13	3 35	24	4 74	7	3 50	13	1 05
		22	5 50	5	61	13	6 70	16	1 35
		1	25			2	1 00		
0013	\$101 74	3	75	1	25			4	35
		1	25	1	25	2	1 00		
910	54 60	4	1 00	2	50	2	1 00	1	60
						2	1 00	6	1 50
2146	188 94	3	75	1	25	9	4 50	16	1 50
		2	50	1	25			1	00
		1	25	1	25			1	10
		1	25			2	1 00	10	94
		1	25			2	1 00		
		2	50						
		3	75	7	1 75	2	1 00	24	1 85
		1	25			3	1 50	7	84
						2	1 00	7	58
						1	50		
		4	1 00			2	1 00		
12,471	\$734 58	64	\$16 00	46	\$0 60	53	\$26 70	112	\$0 84
3895	\$233 70	51	\$12 75	35	\$3 75	8	\$4 00		\$12 36

STATIONERY ACCOUNT—Continued.

From whom purchased.	Sponge cups—number.	Cost.	Rubber bands—gross.	Cost.
On hand	57	\$11 05	117	\$29 06
Short & Forman			40	37 50
J. R. Mills & Co			325	190 88
Robison, Savage & Co.....			100	43 13
Robert H. Gardner & Co.....				
C. Huston				
Total	57	\$11 05	582	\$300 57
To whom issued.				
House of Representatives.....	26	\$5 10	135	\$50 40
Senate	12	2 15	52	21 39
Adjutant-General	1	20	17	3 31
Fish Commissioners	1	20		
Supervisor Public Printing.....	1	20	7	3 41
Supreme Court	1	20	2	60
Treasurer of State	6	1 20	2	46
Law Library	1	20		
Secretary of State	6	1 20	18½	9 17
Auditor of State.....			19	4 49
Executive Department.....			21	4 56
Supreme Court Reporter.....			1	63
Railroad Commissioner.....			5	3 13
Attorney General			8	4 47
Supreme Court Clerk			13	11 50
Bureau Labor Statistics			1	25
School Commissioner.....			3	1 25
Insurance Department.....				
Codifying Commission			4	84
Board Public Works.....			3	84
Fund Commissioners.....				
Board of Agriculture			3	2 76
State Library.....			1	25
Supreme Court Commission.....			1	1 13
Total issued	55	\$10 65	316½	\$124 83
On hand	2	\$0 40	265½	\$175 74

STATIONERY ACCOUNT—Continued.

Feather dusters—number.	Cost.	Brush cups—number.	Cost.	Brushes—number.	Cost.	Chamois skins—number.	Cost.	Soap—cakes.	Cost.
8	\$20 00	14	\$10 25	49	\$13 13	8	\$6 00	506	\$121 64
4	12 00			24	2 50				
38	129 00			50	18 30	42	31 50	300 876	62 25 219 00
45	\$161 00	14	\$10 25	123	\$33 93	50	\$37 50	1,682	\$402 89
9	\$34 50			17	\$4 30	9	\$6 75	264	\$63 75
7	22 00			12	3 55	3	2 25	182	44 54
1	4 00			2	95	1	75	161	38 59
2	5 00							30	8 88
1	4 00							6	1 44
2	5 50	1	69	1	30	4	3 00	78	18 14
				2	1 50	2	1 50	6	1 50
6	22 50			11	5 90	7	5 25	171	38 48
3	10 00	1	75	1	23	2	1 50	102	23 92
3	10 50	1	69	2	50	2	1 50	27	6 62
2	8 00	1	69	1	30	1	75	15	3 54
								30	6 62
1	4 00			4	1 00	1	75	24	6 00
1	4 00								
1	3 00								
1	4 00			2	50	3	2 25	24	6 00
1	4 00			6	1 40	1	75	30	7 32
		1	75	1	30	1	75	3	72
1	4 00	1	68	2	60			12	3 00
				1	30	1	75	6	1 50
1	4 00			2	1 35			39	9 60
1	4 00							12	2 94
44	\$157 00	6	\$4 25	68	\$22 98	38	\$28 50	1,228	\$293 31
1	\$1 00	8	\$6 00	55	\$10 95	12	\$9 00	454	\$109 58

STATIONERY ACCOUNT—Continued.

From whom purchased.	Matches—boxes.	Cost.	Tumblers—number.	Cost.	Paper fasteners—number.	Cost.	Eyelets—boxes.	Cost.	Pen racks—number.	Cost.
On hand	533	\$15 17	9	\$0 73	16,400	\$37 78	36	\$10 47	126	\$26 24
C. Huston	1,152	81 60								
J. M. & W. Westwater			36	3 00						
G. W. Heyl					6,000	3 00				
J. R. Mills & Co					1,000	2 50				
Short & Forman					6,000	14 40				
G. W. Gleason									2	65
Kilbourne, Jones & Co										
E. O. Randall & Co										
McCune, Lonnis & Stoner										
Elliott Jones & Co										
Siebert & Lilley										
Totals	1,685	\$96 77	45	\$3 73	29,400	\$57 68	36	\$10 47	128	\$26 89
To whom issued.										
Auditor of State	120	\$6 16			500	25				
Executive Department	48	2 68			500	25	2	57		
Supreme Court Clerk	24	32	3	24	500	25	2	48		
School Commissioner	30	1 86								
Codifying Commission	106	6 36					2	48	3	75
Secretary of State	81	5 63	1	08	1,900	3 60				
Senate	96	5 44			4,000	9 40			48	10 64
House of Representatives	178	8 41	20	1 65	7,300	17 15			49	9 80
Railroad Commissioner	177	13 84	3	25	500	25				
Law Library	36	3 00			500	25				
State Library	24	1 36								
Adjutant-General	480	23 68	2	18						
Treasurer of State	84	7 00			300	69				
Supervisor Public Printing	24	1 36			1,000	2 35				
Attorney-General	15	1 21			400	56			1	20
Board of Agriculture	96	2 88			100	23				
Fund Commissioners	12	1 00			200	09				
Insurance Department	36	3 00			100	24	1	24	1	20
Board Public Works	18	1 18								
Supreme Court Commission										
Supreme Court					500	25				
State Board of Charities										
Bureau Labor Statistics									1	30
Total issued	1,685	\$96 77	29	\$2 40	18,300	\$35 81	7	\$1 77	103	\$21 89
On hand			16	\$1 33	11,100	\$21 87	29	\$8 70	25	\$5 00

STATIONERY ACCOUNT—Continued.

Punches and sets—number.	Cost.	McGill's presses—number.	Cost.	Cork-screws—number.	Cost.	Chips—number.	Cost.	Paper weights—number.	Cost.	Twine—pounds.	Cost.	Paste cups—number.	Cost.
13	\$12 29			7	\$2 62	14	\$7 29	25	\$16 96	93	\$18 33	17	\$2 91
				12	3 00							12	3 00
		6	\$18 00					131	41 50				
1	35									146	30 88	12	2 04
		5	7 50										
				15	3 75					162	31 20		
								2	3 75				
								6	12 00				
14	\$12 64	11	\$25 50	34	\$9 37	14	\$7 29	164	\$74 21	401	\$80 41	41	\$7 95
		1	\$3 00					1	\$2 00	23	\$5 06		
1	\$0 95	1	3 00							1	35	1	\$9 17
		1	3 00							5	90	1	17
										8	1 58	1	25
1	89							2	1 00	3	63	4	76
2	1 90	1	3 00	1	25	2	1 48	2	1 00	54	10 96	4	1 00
1	95	4	6 00	3	1 13			55	20 86	25	4 71	7	1 29
3	2 85			3	1 12			27	12 95	94	17 64	7	1 27
		1	8 00					2	60	2	36		
		1	3 00					1	2 00	6	1 21		
										15	2 22		
						2	1 49	1	2 00	12	2 67		
				1	37					5	1 00		
						2	1 48						
										3	54		
										28	5 79		
		1	1 50							2	48		
1	35					1	30			10	1 84	1	25
										2	36		
										3	56		
				1	25			2	2 30	3	68		
9	\$7 89	11	\$25 50	9	\$3 12	7	\$4 75	93	\$44 71	304	\$59 54	26	\$5 16
	\$4 75			25	\$6 25	7	\$2 54	71	\$29 50	97	\$20 87	15	\$2 79

[illegible]

STATIONERY ACCOUNT—Continued.

Ribbon—bills.	Cost.	Paper-cutters—number.	Cost.	Diaries—number.	Cost.	Knife erasers.	Cost.	Blank-books—number.	Cost.	Scotch house—number.	Cost.	Baskets—number.	Cost.
31	\$10 35	47	\$13 33	396	\$660 00	833	\$678 50	826	\$66 52	4	\$1 00		
41	90 50			1	1 75	156	156 00	896	218 35				
36	32 40							27	75 78				
				18	32 36			28	13 50				
						277	497 67	72	35 92				
						61	45 31					94	\$12 08
						340	433 50			1	2 50	19	4 50
						89	56 85						
						18	31 50	96	25 60				
						72	72 00	94	10 00				
								33	28 32				
								3	6 00				
								105	106 45				
								18	47 30				
96	\$63 25	47	\$13 33	415	\$495 11	1,185	\$1,594 82	1,322	\$636 01	5	\$3 50	36	\$16 50
		8	\$1 02	173	\$283 33	402	\$491 16	131	\$94 05				
				9	3 33	12	14 51	2	63			1	37
				11	18 34	13	32 65	132	139 18			2	\$1 00
				3	5 00	8	8 54	6	3 97				
				9	5 00	3	5 91	34	7 31				
				9	3 42	3	5 02	1	69			1	35
		2	86	7	11 66	12	28 60	19	35 81			1	38
		12	1 56	68	112 33	284	278 33	71	39 93			2	1 00
				9	15 00	9	17 60	10	6 50			1	50
	\$22 85	1	13	15	94 59	44	61 32	63	22 54			2	135
6	3 00			4	6 66	7	12 66	12	2 83			2	75
				16	8 34	18	18 09	10	17 38				
74	\$1 30			10	16 66	15	20 65	24	10 28				
				5	8 34	7	13 16	7	2 98				
				5	8 34	4	11 89	90	8 66				
				2	3 34	4	7 21	2	72				
				1	7 96	1	1 00	6	1 11				
				1	1 67	2	1 97						
				1	1 67	1	1 96	1	41			1	50
				5	8 34	6	10 10	2	77				
				1	1 66	3	3 97	11	4 56	1	\$2 50	1	50
				15	25 00	25	35 88	11	9 20				
				1	1 67			14	6 06	1	25		
				27	45 00	43	55 84	240	57 81				
98	\$57 25	23	\$3 57	376	\$696 35	874	\$1,136 87	829	472 45	2	\$2 75	15	\$6 88
12	\$6 00	24	\$2 78	39	\$68 76	311	\$387 95	493	\$163 56	3	75	21	\$9 02

STATIONERY ACCOUNT—Continued.

From whom purchased.	Arm-rests—number.	Cost.	Sealing wax—pounds.	Cost.	Stationery cases—number.	Cost.	Scrap-books—number.	Cost.	Dividers—number.	Cost.
On hand.....	11	\$6 60	4	\$6 00	10	\$10 00	7	\$6 28	1	\$0 27
J. R. Mills & Co.....			10	7 50			28	32 00		
G. W. Gleason.....							3	6 00		
Elliott Jones & Co.....							2	1 70		
Wilstach, Baldwin & Co.....										
Short & Forman.....										
Robison, Savage & Co.....										
Bindery.....										
Siebert & Lilley.....										
McCune, Lonnis & Stoner.....										
J. M. & W. Westwater.....										
Totals.....	11	\$6 60	14	\$13 50	10	\$10 00	40	\$45 98	1	\$0 27
To whom issued.										
Supreme Court Clerk.....	2	\$1 20	2	\$1 50						
Senate.....	3	1 80					1	\$ 90		
House of Representatives.....	3	1 80			1	\$1 00	15	17 48		
Fund Commissioners.....			1	1 50						
Executive Department.....			3 1/2	4 87	2	2 00	2	1 90		
Secretary of State.....			1	25			4	3 90		
Attorney-General.....			1	75			1	1 00		
Adjutant-General.....			1	75			1	1 00		
Mines Inspector.....					1	1 00				
Insurance Department.....					1	1 00				
Bureau Labor Statistics.....					1	1 00				
Auditor of State.....										
Board of Agriculture.....										
Supervisor Public Printing.....										
Railroad Commissioner.....										
Treasurer of State.....										
School Commissioner.....										
Board of Public Works.....										
Supreme Court Commission.....										
Total issued.....	8	\$4 80	8 5/8	\$9 62	6	\$6 00	24	\$26 18		
On hand.....	3	\$1 80	5 1/8	\$3 88	4	\$4 00	16	\$19 80	1	\$0 27

STATIONERY ACCOUNT—Continued.

From whom purchased.	Pencil protectors—dozen.	Cost.	Card board—sheets.	Cost.	Pen pullers—gross.	Cost.	Dust pane—number.	Cost.
On hand	8½	\$2 65			1	\$5 00	6	\$1 44
McCune, Lonnis & Stoner.....							12	2 04
G. W. Gleason			1800	\$7 20				
Nevins & Myers			306	4 27				
Comly & Francisco.....			131	2 40				
Bindery								
Siebert & Lilley.....								
Elliott Jones & Co								
George Cole.....								
Short & Forman								
J. R. Mills & Co	36	10 50						
Robison, Savage & Co.....	24	7 00						
R. H. Gardner & Co								
Total.....	68½	\$20 15	2237	\$13 87	1	\$5 00	18	\$3 48
To whom issued.								
House of Representatives	3	\$0 89					2	\$0 48
State Board of Charities.....	½	23						
Senate	23	6 73	300	\$3 52				
Railroad Commissioner.....	3	90						
Adjutant-General	1	30	25	75				
Codifying Commission	½	15						
Treasurer of State	2	60	3	45			1	24
Board of Agriculture.....	1	30						
Supreme Court.....	1	28						
Secretary of State	½	15					1	24
Executive Department.....			1800	7 20				
Auditor of State			6	40				
State Library			103	1 55				
Supreme Court Clerk							1	24
Fund Commissioners.....							1	24
Board of Public Works.....								
Supreme Court Commission.....								
Attorney-General								
Insurance Department.....								
Bureau Labor Statistics.....								
School Commissioner.....								
Total issued.....	35½	\$10 53	2237	\$13 87			6	\$1 44
On hand.....	32½	\$9 62			1	\$5 00	12	\$2 04

SECRETARY OF STATE.

STATIONERY ACCOUNT—Continued.

Call bells—number.	Cost.	Reporters' pads.	Cost.	Assessors' paper—reams.	Cost.	Requisition books.	Cost.	Tie envelopes—dozen.	Cost.	Gum arabic—pounds.	Cost.	Pounce—bottles.	Cost.
2	\$5 00	157	\$0 45	5	\$37 60	2	\$1 20						
												3	\$0 48
		784	54 88										
		18	3 60										
		19	11 02										
		6	2 70										
		12	6 96										
								40	\$27 00				
										3½	\$6 25		
2	\$5 00	1026	\$88 61	5	\$37 60	2	\$1 20	40	\$27 00	3½	\$6 25	3	\$0 48
		272	\$26 29									2	\$0 32
		4	28										
		158	10 06					1	\$0 75				
		1	1 02										
		31	2 13					5	3 75				
		90	5 82							3½	\$6 25		
1	\$2 50	48	3 24					2	1 35				
		12	84										
		60	4 20										
		103	10 28									1	16
		36	2 14					8½	5 00				
		36	2 28										
		12	84										
		12	84					14	9 30				
		12	72										
		15	1 02										
		42	3 30										
		21	1 47					4	2 70				
		18	1 26										
		6	42										
		3	21										
1	\$2 50	1009	\$78 65					34½	\$22 85	3½	\$6 25	3	\$0 45
1	\$2 50	17	\$9 96	5	\$37 60	2	\$1 20	5½	\$4 15				

DEPARTMENT OF STATE,
BUREAU OF STATISTICS.

STATISTICAL REPORT
OF THE
SECRETARY OF STATE,
TO THE
GENERAL ASSEMBLY OF OHIO,
FOR THE YEAR 1878.

OFFICE OF THE SECRETARY OF STATE,
COLUMBUS, OHIO, *January 8, 1879.*

To the General Assembly of Ohio :

In compliance with the statute, which provides that it shall be the duty of the Secretary of State, annually, to prepare, from the official reports and from whatever other reliable sources to which he may obtain access, as full, accurate, and intelligible tables of the statistics of the State as may be in his power, and report the result of his labors to the General Assembly at its next meeting, I have the honor herewith to submit my second annual report, being for the year ending November 15, 1878.

Very respectfully,

Your obedient servant,

MILTON BARNES,
Secretary of State.

OHIO IN THE GATE-WAY.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY E. B. ANDREWS.

If the early founders of the State of Ohio—the Putnams, the Symmeses, the Perkinses, and others—who had so vast an area of American territory to select from, had been endowed with prophetic vision, and could have seen the West as it appears to-day, could, indeed, have looked upon a geological map and scanned the mineral resources of the West, they could not have chosen a location with more wisdom.

They selected a territory lying south of Lake Erie, the most southern of the great lakes, and north of the Ohio river, thus securing a region of comparatively mild climate in the very best portion of the temperate zone. By Lake Erie they obtained all the benefits of a vast system of water communication with the whole marginal area along the chain of lakes, an area destined, in a short time, to be settled by an industrious population. By the Ohio river on the south, they had connection with Pennsylvania on the east, and with Kentucky—already considerably settled—on the west, and with the whole great interior river system, of which the Ohio forms a part. These means of water communication were of the greatest value for many years, while they were almost the only means, and now that railroads have become so numerous, they are the best and cheapest means of the transportation of the products of the farm and mine, and the statistics show that the tonnage carried by lake and river is immensely large.

In later days, when great lines of railway were needed to connect the sea-board States with the Interior valley, and with all the great West, it was found that all these lines must pass through Ohio. The people of New England, and of a large portion of the State of New York, now secure for

themselves, and for the products of their diversified industries, a route to the West by the New York Central and the Lake Shore railroads. From New York City the Erie railway extends along the southern border of New York, and, by the Atlantic and Great Western, passes to Cleveland and to Cincinnati. The great Pennsylvania Central, connected with New York City and Philadelphia on the sea-board, crosses the mountains, and, by many auxiliary lines, passes through Ohio, to reach all the great cities of the Interior. The Baltimore and Ohio railroad, leaving the sea-board still farther south, crosses the Alleghanies, and, dividing, enters our State at two points, Bellaire and Belpre. By the northern branch it passes to Columbus, the capital of Ohio, and by a bend northwestward from Newark it stretches away through Ohio and Indiana to Chicago. By the southern branch it unites with the Marietta and Cincinnati railroad, and thence has connection with St. Louis and with the heart of the great Interior valley. The fifth, and most southern of the railways from the sea-board States is the Chesapeake and Ohio railway, from Eastern Virginia, which crosses the Alleghany Mountains by light grades, and strikes the Ohio river at Huntington, opposite Lawrence county, in our State. It is only a question of time when the Ohio river will be bridged at this point, or near by, and the needed connections built to unite this road with the great railroad system of the west.

Thus it is seen that all of the great lines of railroad, from the Atlantic States to the Interior, pass through the State of Ohio as their necessary gate-way. In the same way it might be shown that the vast trade of the interior States west of Ohio, and of the Territories and States of the more distant West, is carried eastward by lines which converge to pass through Ohio. Even the teas and silks of Japan and China which enter the Golden Gate pass eastward through Ohio to New York and to London. It is thus evident that a very large portion of the passenger and freight traffic of the United States finds its transit over the territory of our State.

Now, what do we find in this gate-way State? It contains a well-ordered and intelligent population of nearly three millions of people, the census of 1870 showing 2,665,002. Within this State are to be found soils of great fertility, adapted to various agriculture, and mineral resources in coals, iron ores, salt, etc., etc., which are an ample endowment of an industrious people for ages to come. The eastern third of the State is a continuous coal-field, a part of the great Alleghany coal-field, which stretches from Northern Pennsylvania through many States into Alabama. When quantity and quality of coal, and location with refer-

ence to markets are considered, it is evident that no equal area of the Alleghany coal-field is so valuable as that portion of it which lies across the paths of the railroads which pass through the Ohio gate-way. This coal area extends from the Ohio river on the south almost to Lake Erie on the north. It faces, so to speak, a vast coalless district lying to the west and northwest. There is no coal due west of the Ohio field until we reach Western Indiana. There is no coal to the northwest along the southern margins of the lakes—excepting a small and almost valueless field in Michigan—and none whatever in Canada north of the lakes. The fuel supply of this great coalless district can be better furnished from Ohio, by railroads and by water transportation, than from any other coal-field of the West. The very superior quality of the better class of Ohio coals, creates an additional demand for them in the markets of the Northwest. Now, if to the facts that there is a great and rapidly increasing demand for coal from the wide region, west and northwest, and that there is in Ohio the means of supply for centuries to come, we add the third great fact that Ohio lies in the gate-way, with Lake Erie and its vast water connections on the north and the navigable Ohio river on the south, with a large number of railroads between, it will, I think, be admitted that no State in the Union is so admirably situated with reference to the future development and growth of a very great mining industry. New lines of railroads have been constructed and others are partly constructed, to distribute the coals of Ohio to various markets, and no railroads in the State make better returns to their stockholders, or are upon a firmer financial basis, than those roads which, like the Columbus and Hocking Valley, are preëminently coal roads. Many counties contain large bodies of coal which are scarcely known, to develop which no railroads have as yet been constructed. New roads will be needed, not long new lines so much as branches and short connections. With returning financial prosperity it can not be doubted that there will be a large increase in the mining industries of Ohio and that the gate-way State will play a part in the coal supply of the West which will be a surprise even to her own people.

Besides our coals we have vast quantities of iron ore. These ores are found interstratified with the coal seams and other rocks which constitute our Coal Measures. The most famous ore of the State, as it is certainly the richest and finest, is the limonite of the Hanging Rock region—commonly known as the “limestone ore.” From this ore iron of the highest quality of its class has been made for more than fifty years. Other ores, limonites and siderites, are found widely distributed. Blackband ores are now known to be quite abundant, and are found in several different

geological horizons in our Coal Measures. They have been traced from the north into Perry county, where they are now mined, and there is reason to believe that they will be found as far south as the Ohio river. There is, probably, more blackband ore in Ohio than all the other States of our land.

There is an abundance of good coal in Ohio for the smelting of these various ores, but it is not always to be found in the neighborhood of the ores. In a few limited districts we find the ores, coals, and limestones in the same hills, and within a vertical range of one hundred and twenty feet or less, but, as a rule, some of the raw materials are separated in location from the others, and railroads are needed to bring them together. The low price of iron renders it now financially impossible to transport those materials any considerable distance, unless, as in the use of Lake Superior or Missouri ores, a special quality of iron is to be made. I have no doubt whatever that when more full and minute searches are made, they will, in very many cases, be rewarded by finding good iron-making coals near known bodies of ore, or ores near good coals, and, indeed, we may hope to find both coals and ores of excellent quality in counties where they have not yet been recognized.

But besides the native ores lying within the State of Ohio, forming a basis of large iron industries, there are just reasons for believing that the rich ores from the upper lakes will more and more seek the abundant and cheap coal of our State. Such ores are already brought to many of our furnaces to be used alone for the manufacture of pig-iron suitable for steel, or to be mixed with the home ores. Since steel is rapidly supplanting iron for a large number of important uses, may we not expect that the pure ores used for Bessemer and other steels will, in the future, be largely brought to our gate-way State to be smelted? We already send our coals to the lake ports—Toledo, Sandusky, Black River, Cleveland, Ashtabula, and Painesville. The returning cars could take back to the coal-fields the ores brought by water from the upper lakes to these ports. It is believed that these ores can nowhere else find a good fuel so cheap and so abundant as in our State. With the restoration of better times the manufacture of iron, both from native and foreign ores, will be greatly extended. The demand for iron and steel in the West will increase, and no State in the Union can furnish the supply more advantageously. Besides ores and coals, there are in the gate-way almost inexhaustible supplies of fire clay and cement limestone. There is salt enough to be made from our abundant brines to supply the nation. The brine and fuel for its evaporation are often to be obtained at the same spot, as at Pomeroy, Salina,

Cambridge, etc. The quantity of petroleum which has already been obtained in the State is not small, and probably further researches will reveal new localities where productive wells may be secured. With cheap raw materials, with cheap transportation by water and by rail, and with cheap capital, the development of mining and manufacturing industries will be rapid and great, and the gate-way State will be crowned with thrift and prosperity commensurate with the intelligence and enterprise of her people.

ELECTION STATISTICS
OF OHIO.

ELECTION STATISTICS OF OHIO.

VOTE ON GOVERNOR FROM 1803 TO 1860 INCLUSIVE.

Year.	Names.	Vote.	Total vote.
1803.....	Edward Tiffin	4,564	4,564
1805.....	Edward Tiffin	4,783	
1807.....	Return J. Meigs	6,060	10,807
	Nathaniel Massie	4,767	
1808.....	Samuel Huntington	7,293	16,291
	Thomas Worthington	5,661	
	Thomas Kirker	33,97	
1810.....	Return J. Meigs	8,924	17,655
	Thomas Worthington	7,731	
1812.....	Return J. Meigs	11,859	19,752
	Thomas Scott	7,903	
1814.....	Thomas Worthington	15,579	22,060
	Othniel Looker	6,171	
1816.....	Thomas Worthington	22,931	30,833
	James Dunlap	6,296	
	Ethan A. Brown	1,607	
1818.....	Ethan A. Brown	30,194	38,269
	James Dunlap	8,075	
1820.....	Ethan A. Brown	24,636	48,860
	Jeremiah Morrow	9,426	
	William H. Harrison	4,348	
	Scattering	240	
1822.....	Jeremiah Morrow	26,059	60,006
	Allen Trimble	22,889	
	William W. Irwin	11,060	
1824.....	Jeremiah Morrow	39,526	75,634
	Allen Trimble	37,108	
1826.....	Allen Trimble	71,475	84,733
	John Bigger	4,114	
	Alex. Campbell	4,766	
	Benjamin Tappan	4,192	
	Scattering	167	
1828.....	Allen Trimble	53,970	106,033
	John W. Campbell	51,961	
	Scattering	112	
1830.....	Duncan McArthur	49,668	99,060
	Robert Lucas	49,186	
	Scattering	206	

VOTE ON GOVERNOR—Continued.

Year.	Names.	Vote.	Total vote.
1832.....	Robert Lucas	71,251	134,469
	Darius Lyman	63,186	
	Scattering	33	
1834.....	Robert Lucas	70,738	138,190
	James Findlay	67,414	
	Scattering	38	
1836.....	Joseph Vance	92,204	176,562
	Ell Baldwin	86,158	
	Scattering	200	
1838.....	Wilson Shannon	107,844	210,037
	Joseph Vance	102,146	
	Scattering	7	
1840.....	Thomas Corwin	145,442	274,762
	Wilson Shannon	129,321	
	Scattering	8	
1842.....	Wilson Shannon	119,774	242,660
	Thomas Corwin	117,902	
	Leicester King	5,134	
	Scattering	40	
1844.....	Mordecai Bartley	146,333	300,304
	David Tod	145,062	
	Leicester King	8,690	
	Scattering	11	
1846.....	William Bebb	118,869	246,196
	David Tod	116,494	
	Samuel Lewis	10,797	
	Scattering	46	
1848.....	Seabury Ford	148,250	297,075
	John B. Waller	147,826	
	Scattering	939	
1850.....	Reuben Wood	133,093	269,038
	William Johnson	121,106	
	Edward Smith	13,747	
	Scattering	93	

**VOTE CAST AT STATE AND PRESIDENTIAL ELECTIONS IN OHIO, FROM 1852
TO 1878, INCLUSIVE.**

Year.	Officers to be elected.	Names of candidates.	Votes each received.	Total vote cast.
1852.....	President	Winfield Scott	152,523	353,188
		Franklin Pierce	168,933	
		John P. Hale.....	31,732	
1853.....	Governor	Nelson Barrere	85,857	283,866
		William Medill	147,663	
		Samuel Lewis	50,346	
1854.....	Supreme Judge	Joseph R. Swan	186,458	295,573
		S. F. Norris	109,075	
1855.....	Governor	S. P. Chase	146,770	302,065
		William Medill.....	131,019	
		Allen Trimble	24,276	
1856.....	President.....	John C. Fremont.....	187,497	386,497
		James Buchanan.....	170,874	
		M. Fillmore	28,126	
1857.....	Governor	S. P. Chase	160,568	329,905
		H. B. Payne	159,065	
		P. Van Trump	10,272	
1858.....	Supreme Judge	William V. Peck.....	182,942	345,552
		Thomas W. Bartley	162,610	
1859.....	Governor	W. Dennison, Jr	184,557	355,783
		R. P. Ranney	171,226	
1860.....	President.....	Abraham Lincoln	221,809	442,962
		Stephen A. Douglas	157,421	
		John Bell	12,193	
		John C. Breckinbridge ..	11,303	
		Gerritt Smith.....	136	
1861.....	Governor	David Tod.....	206,997	358,791
		H. J. Jewett.....	151,794	
1862	Secretary of State....	Wilson S. Kennon.....	178,755	363,070
		W. W. Armstrong	184,315	
1863.....	Governor	John Brough	248,374	475,866
		C. L. Vallandigham	187,492	
1864.....	Secretary of State....	William Henry Smith...	237,210	419,649
		W. W. Armstrong.....	182,439	
1864.....	President.....	A. Lincoln.....	265,654	471,253
		George B. McClellan	205,599	
1865.....	Governor	J. D. Cox.....	233,633	417,430
		George W. Morgan.....	193,797	
1866.....	Secretary of State....	William Henry Smith ...	256,302	469,908
		Benjamin LeFever	213,606	
1867.....	Governor	R. B. Hayes	243,605	484,227
		A. G. Thurman.....	240,622	

VOTES CAST AT THE STATE AND PRESIDENTIAL ELECTIONS—Continued.

Year.	Officers to be elected.	Names of candidates.	Votes each received.	Total vote cast.
1868.....	Secretary of State....	I. R. Sherwood..... Thomas Hubbard.....	267,065 249,682	516,747
1869.....	President.....	U. S. Grant..... H. Seymour.....	280,187 238,621	
1869.....	Governor.....	R. B. Hayes..... G. H. Pendleton..... Samuel Scott.....	235,081 227,580 679	518,788
1870.....	Secretary of State....	Isaac R. Sherwood..... William Hensley..... Jay Odell.....	221,709 205,014 2,862	463,340
1871.....	Governor.....	Edward F. Noyes..... George W. McCook..... Gideon T. Stewart.....	238,273 218,105 4,084	459,585
1872.....	Secretary of State....	A. T. Wikoff..... Aquila Wiley..... F. Schumacher.....	265,830 251,760 2,045	460,462
1872.....	President.....	U. S. Grant..... Horace Greeley..... James Black..... Charles O'Connor..... Scattering.....	281,852 244,321 2,000 1,163 162	519,655
1873.....	Governor.....	William Allen..... Edward F. Noyes..... Gideon T. Stewart..... Isaac C. Collins.....	214,654 213,837 10,278 10,109	529,498
1874.....	Secretary of State....	William Bell, Jr..... Allen T. Wikoff..... John R. Buchtel.....	238,406 221,204 7,815	448,678
1875.....	Governor.....	Rutherford B. Hayes..... William Allen..... Jay Odell..... Scattering.....	297,817 292,273 2,593 17	467,455
1876.....	Secretary of State....	Milton Barnes..... William Bell, Jr..... E. S. Chapman.....	317,856 311,220 1,863	592,700
1876.....	President.....	Rutherford B. Hayes..... Samuel J. Tilden..... G. Clay Smith..... Peter Cooper..... James B. Walker..... Scattering, etc.....	330,698 323,182 1,636 3,057 76 1,122	633,062
1877.....	Governor.....	William H. West..... Richard M. Bishop..... Lewis H. Bond..... Stephen Johnston..... Henry A. Thompson.....	249,105 271,625 12,489 16,912 4,836	559,771
1878.....	Secretary of State....	Milton Barnes..... David R. Paige..... Andrew Roy..... Jeremiah N. Robinson...	274,120 270,966 38,332 5,682	557,503
				591,088

TABLE SHOWING THE MAJORITY IN EACH COUNTY IN THE

Number.	Counties.	President. 1872.		Governor. 1873.		Secretary of State. 1874.	
		Grant.	Greeley.	Allen	Noyes.	Bell.	Wikoff.
1	Adams		95	403		220	
2	Allen		453	531		356	
3	Ashland		185	583		539	
4	Ashtabula	4086			2001		3110
5	Athens	1627			1121		832
6	Anglaize		1355	1353		1266	
7	Belmont	620			220		202
8	Brown		744	976		1000	
9	Butler		1933	1801		2068	
10	Carroll	534			362		342
11	Champaign	874			650		344
12	Clarke	1483			1015		583
13	Clermont		250	472		475	
14	Clinton	1319			941		1184
15	Columbiana	1876			903		408
16	Coshocton		404	655		539	
17	Crawford		1514	1587		1934	
18	Cuyahoga	6418			2601	707	
19	Darke	309		1020		960	
20	Defiance		627	962		1062	
21	Delaware	700			158		75
22	Erie	618			410		134
23	Fairfield		1348	517		1329	
24	Fayette	595			474		369
25	Franklin		1549	2297		1801	
26	Fulton	1384			627		764
27	Gallia	1301			764		512
28	Geauga	2111			1226		1973
29	Greene	2108			1429		1062
30	Guernsey	728			357		434
31	Hamilton		4858	763		4637	
32	Hancock		138	465		412	
33	Hardin	268			86	320	
34	Harrison	608			381		361
35	Henry		350	532		770	
36	Highland	238			72	126	
37	Hocking		510	698		791	
38	Holmes		1441	1506		1557	
39	Huron	1630			804		839
40	Jackson	703			367		124
41	Jefferson	1647			1089		401
42	Knox	43		654		415	
43	Lake	1772			1307		1514
44	Lawrence	1987			815		29
45	Licking		1069	1406		2110	
46	Logan	840			416		381
47	Lorain	2335			2145		1833
48	Lucas	2170			850	262	
49	Madison	309			4	30	
50	Mahoning	1239			457		181
51	Marion		302	661		574	
52	Medina	1099			526		443
53	Meigs	1689			1345		1194
54	Mercer		1064	1097		1178	
55	Miami	843			660		261
56	Monroe		1571	1606		1596	
57	Montgomery		185	362		868	
58	Morgan	788			198		269

STATE, FOR THE YEARS 1872, 1873, 1874, 1875, 1876, 1877, AND 1878.

Governor. 1875.		President. 1876.		Governor. 1877.		Secretary of State. 1878.		Number.
Allen.	Hayes.	Tilden.	Hayes.	West.	Bishop.	Barnes.	Paige.	
386	.....	405	.....	.....	359	.....	200	1
769	.....	1037	.....	.....	1092	.....	986	2
550	.....	635	.....	.....	703	.....	503	3
.....	4190	.....	4477	3221	.....	3466	.....	4
.....	782	.....	1218	517	.....	956	.....	5
1750	.....	2039	.....	.....	1191	.....	1388	6
74	.....	48	.....	.....	577	.....	266	7
1319	.....	1112	.....	.....	1148	.....	1607	8
2265	.....	2678	.....	.....	2416	.....	2290	9
.....	437	.....	506	423	.....	550	.....	10
.....	482	.....	656	697	.....	857	.....	11
.....	997	.....	1600	566	.....	1285	.....	12
556	.....	467	.....	.....	816	.....	793	13
.....	1216	.....	1452	1057	.....	1176	.....	14
.....	966	.....	1417	814	.....	1419	.....	15
592	.....	794	.....	.....	658	.....	539	16
1770	.....	2053	.....	.....	1917	.....	1565	17
.....	6046	.....	3773	990	.....	4738	.....	18
1304	.....	1090	.....	.....	1335	.....	1222	19
1265	.....	1363	.....	.....	1078	.....	1072	20
.....	127	.....	428	.....	118	247	.....	21
.....	234	.....	46	.....	62	42	.....	22
1553	.....	1827	.....	.....	1744	.....	1808	23
.....	875	.....	562	266	.....	394	.....	24
1109	.....	1826	.....	.....	2776	.....	1816	25
.....	991	.....	1100	444	.....	714	.....	26
.....	520	.....	900	589	.....	550	.....	27
.....	1930	.....	2196	1542	.....	1743	.....	28
.....	1933	.....	1994	1028	.....	1494	.....	29
.....	393	.....	646	360	.....	523	.....	30
.....	1295	582	.....	.....	3369	1164	.....	31
274	.....	404	.....	.....	488	.....	441	32
81	.....	.....	128	.....	.....	122	.....	33
.....	235	.....	544	320	.....	390	.....	34
682	.....	918	.....	.....	876	.....	1096	35
55	.....	.....	18	.....	35	.....	147	36
688	.....	784	.....	.....	711	.....	465	37
1779	.....	1930	.....	.....	1780	.....	1500	38
.....	1186	.....	1490	820	.....	1852	.....	39
.....	287	.....	568	158	.....	283	.....	40
.....	895	.....	1145	694	.....	1098	.....	41
297	.....	150	.....	.....	475	.....	579	42
.....	1558	.....	1800	1253	.....	1214	.....	43
.....	637	.....	1026	233	.....	970	.....	44
1525	.....	1511	.....	.....	1737	.....	1589	45
.....	794	.....	973	672	.....	772	.....	46
.....	2670	.....	2467	1724	.....	2380	.....	47
.....	1384	.....	1369	.....	484	.....	227	48
.....	85	.....	46	38	.....	.....	44	49
159	.....	.....	230	127	.....	878	.....	50
772	.....	685	.....	.....	718	.....	426	51
.....	899	.....	927	615	.....	828	.....	52
.....	590	.....	1189	807	.....	1253	.....	53
1560	.....	1712	.....	.....	1168	.....	1322	54
.....	767	.....	879	549	.....	980	.....	55
2113	.....	2343	.....	.....	1835	.....	1863	56
812	.....	1050	.....	.....	1619	.....	1205	57
.....	200	.....	268	84	.....	128	.....	58

MAJORITIES IN EACH COUNTY—Continued.

Number.	Counties.	President. 1872.		Governor. 1873.		Secretary of State. 1874.	
		Grant.	Greeley.	Allen.	Noyes.	Bell.	Wikoff.
59	Morrow	508	.....	.....	28	.....	162
60	Muskingum	254	.....	226	.....	645	.....
61	Noble	339	.....	36	.....	.....	75
62	Ottawa .....	.....	317	679	.....	848	.....
63	Paulding	342	.....	.....	87	.....	22
64	Perry .....	.....	265	429	.....	874	.....
65	Pickaway .....	.....	307	795	.....	625	.....
66	Pike .....	.....	284	402	.....	359	.....
67	Portage	1040	.....	.....	229	.....	412
68	Preble	614	.....	.....	336	.....	72
69	Putnam .....	.....	856	1192	.....	1170	.....
70	Richland .....	.....	403	612	.....	758	.....
71	Ross .....	.....	61	647	.....	413	.....
72	Sandusky .....	.....	349	715	.....	924	.....
73	Scioto	797	.....	.....	206	420	.....
74	Seneca .....	.....	334	892	.....	866	.....
75	Shelby .....	.....	594	649	.....	747	.....
76	Stark	567	.....	20	.....	772	.....
77	Summit	1796	.....	.....	443	.....	80
78	Trumbull	3543	.....	.....	1771	.....	1153
79	Tuscarawas .....	.....	408	918	.....	980	.....
80	Union	836	.....	.....	492	.....	588
81	Van Wert	119	.....	20	.....	155	.....
82	Vinton .....	.....	26	245	.....	385	.....
83	Warren	1595	.....	.....	1535	.....	986
84	Washington	451	.....	.....	120	122	.....
85	Wayne	235	.....	219	.....	459	.....
86	Williams	794	.....	.....	159	.....	46
87	Wood	1098	.....	.....	274	.....	452
88	Wyandot .....	.....	279	675	.....	546	.....
	Total majorities.	63,959	26,428	33,272	32,461	41,998	24,796
	Net majorities ..	37,531		817		17,202	

MAJORITIES IN EACH COUNTY—Continued.

Governor. 1875.		President. 1876.		Governor. 1877.		Secretary of State. 1878.		Number.
Allen.	Hayes.	Tilden.	Hayes.	West.	Bishop.	Barnes.	Paige.	
.....	130	.....	404	.....	3	271	.....	59
330	.....	225	.....	.....	702	.....	244	60
.....	67	.....	129	21	.....	.....	89	61
719	.....	872	.....	.....	993	.....	1246	62
.....	14	.....	133	.....	11	74	.....	63
945	.....	726	.....	.....	758	.....	704	64
747	.....	824	.....	.....	981	.....	1001	65
610	.....	631	.....	.....	586	.....	702	66
.....	543	.....	706	407	.....	770	.....	67
.....	222	.....	453	105	.....	199	.....	68
1442	.....	1568	.....	.....	1431	.....	1438	69
765	.....	758	.....	.....	1096	.....	912	70
226	.....	254	.....	.....	639	.....	155	71
744	.....	298	.....	.....	717	.....	806	72
.....	259	.....	334	.....	294	206	.....	73
694	.....	722	.....	.....	936	.....	865	74
944	.....	1156	.....	.....	979	.....	926	75
255	.....	362	.....	.....	1024	200	.....	76
.....	1100	.....	1251	382	.....	723	.....	77
.....	2352	.....	3103	2179	.....	2147	.....	78
789	.....	971	.....	.....	1101	.....	901	79
.....	644	.....	867	606	.....	846	.....	80
125	.....	120	.....	.....	181	.....	98	81
409	.....	284	.....	.....	499	.....	345	82
.....	1175	.....	1587	1306	.....	1476	.....	83
86	.....	131	.....	.....	589	.....	235	84
454	.....	589	.....	.....	871	.....	457	85
.....	137	.....	155	23	.....	.....	11	86
.....	723	.....	834	207	.....	211	.....	87
570	.....	540	.....	.....	683	.....	541	88
26,913	42,457 5,541	40,478	47,994 7,516	25,844	48,364 22,520	41,589 3,154	38,435	

ANALYSIS OF VOTE OF OHIO FOR 1876 AND 1877.

Number.	Counties.	Aggregate vote, Nov., 1876.	Aggregate vote, Oct., 1877.	Votes of October, 1877, compared with November, 1876.					
				Change in aggregate.		Change in Democratic vote.		Change in Republican vote.	
				Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.
1	Adams	4,712	4,121	.....	591	.....	325	.....	279
2	Allen	6,030	5,195	.....	835	.....	470	.....	525
3	Ashland	5,432	4,977	.....	455	.....	197	.....	296
4	Ashtabula	9,119	7,308	.....	1,811	.....	364	.....	1,620
5	Athens	5,728	4,808	.....	920	.....	144	.....	545
6	Auglaize	5,087	3,456	.....	1,631	.....	1,248	.....	400
7	Belmont	10,064	9,154	.....	910	.....	392	.....	921
8	Brown	7,068	5,622	.....	1,446	.....	709	.....	745
9	Butler	9,392	8,065	.....	1,327	.....	1,032	.....	770
10	Carroll	3,629	3,386	.....	243	.....	89	.....	172
11	Champaign	6,430	5,935	.....	495	.....	290	.....	249
12	Clarke	8,720	6,665	.....	2,055	.....	751	.....	1,765
13	Clermont	8,187	7,225	.....	962	.....	456	.....	806
14	Clinton	5,631	4,621	.....	1,010	.....	339	.....	734
15	Columbiana	9,724	8,260	.....	1,464	.....	559	.....	1,162
16	Coshocton	5,834	5,149	.....	685	.....	428	.....	290
17	Crawford	8,715	5,370	.....	1,455	.....	867	.....	731
18	Cuyahoga	33,055	25,394	.....	7,661	.....	3,781	.....	6,564
19	Darke	8,239	7,133	.....	1,106	.....	720	.....	965
20	Deane	4,422	3,587	.....	835	.....	793	.....	503
21	Delaware	6,204	5,219	.....	985	.....	308	.....	854
22	Erie	6,412	5,333	.....	1,079	.....	626	.....	734
23	Fairfield	7,372	6,652	.....	720	.....	436	.....	353
24	Fayette	4,382	3,731	.....	651	.....	148	.....	444
25	Franklin	17,037	13,844	.....	3,193	.....	1,579	.....	2,529
26	Fulton	4,367	3,164	.....	1,203	.....	441	.....	1,097
27	Gallia	5,519	4,628	.....	891	.....	305	.....	616
28	Geauga	3,830	3,014	.....	816	.....	94	.....	748
29	Greene	7,049	5,440	.....	1,609	.....	491	.....	1,457
30	Guersey	5,604	5,134	.....	470	.....	119	.....	405
31	Hamilton	58,482	47,290	.....	11,192	.....	8,926	.....	11,713
32	Hancock	6,034	5,260	.....	754	.....	361	.....	445
33	Hardin	5,563	5,515	.....	48	22	.....	.....	106
34	Harrison	4,643	4,165	.....	478	.....	108	.....	332
35	Henry	3,988	2,863	.....	1,125	.....	602	.....	560
36	Highland	6,688	6,132	.....	556	.....	267	.....	320
37	Hocking	3,734	3,064	.....	670	.....	383	.....	310
38	Holmes	4,425	3,807	.....	618	.....	391	.....	241
39	Huron	7,586	6,127	.....	1,459	.....	560	.....	1,230
40	Jackson	4,484	3,921	.....	563	.....	109	.....	519
41	Jefferson	7,048	6,058	.....	990	.....	438	.....	869
42	Knox	6,544	6,031	.....	513	.....	238	.....	563
43	Lake	4,143	3,156	.....	987	.....	235	.....	782
44	Lawrence	6,956	5,571	.....	1,384	.....	532	.....	1,325
45	Licking	9,672	8,336	.....	1,336	.....	754	.....	960
46	Logan	5,622	4,988	.....	634	.....	241	.....	542
47	Lorain	7,963	6,223	.....	1,740	.....	558	.....	1,301
48	Lucas	11,978	9,957	.....	2,021	.....	2,000	.....	3,853
49	Madison	4,361	4,321	.....	37	.....	18	.....	26
50	Mahoning	6,090	7,163	.....	927	.....	871	.....	974
51	Marion	4,662	3,882	.....	670	.....	351	.....	.....

ANALYSIS OF VOTE OF OHIO FOR 1877 AND 1878.

Aggregate vote in 1877.	Aggregate vote in 1878.	Vote of October, 1878, compared with October, 1877.						Number.
		Change in aggregate.		Change in Democratic vote.		Change in Republican vote.		
		Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	
4,121	4,957	836		329		487		1
5,195	4,975		220		191		85	2
4,977	5,205	228		14		214		3
7,308	7,139		169		412		167	4
4,608	4,208	400			320		119	5
3,456	3,691	235		77			93	6
9,154	8,887		267		414		102	7
5,622	6,266	644		476		17		8
6,065	7,907		159	40		156		9
3,388	3,359		27		111		16	10
5,939	5,918		20		157		3	11
6,665	7,799	1,134		72		791		12
7,225	7,724	499			134		111	13
4,621	5,131	510		218		337		14
8,260	8,277	17			465		140	15
5,149	5,344	195			9		110	16
5,270	5,798	528			9		343	17
26,394	27,400	2,006			2,533	1,215		18
7,133	7,493	360		255		368		19
3,587	3,517		70	54		60		20
5,219	5,880	661		64		449		21
5,333	5,702	369		72		176		22
6,552	6,946	294				140		23
3,731	4,298	567		210		338		24
13,884	16,288	2,404		567		1,527		25
3,164	3,936	772		143		413		26
4,628	5,044	456		254		215		27
3,014	2,962		52		222		21	28
5,440	5,479	39			117		349	29
5,134	5,317	183			21		142	30
47,290	51,195	3,905		3,933		8,466		31
5,280	5,535	255			50		3	32
5,515	5,804	289		62		184		33
4,165	3,976		189		173		103	34
2,863	3,146	283		20			200	35
6,132	6,556	424		222		170		36
3,064	3,481	417				190		37
3,607	3,330		477		376		96	38
6,127	6,249	722			940		92	39
3,921	4,407	486		166		291		40
6,058	6,005		53		328		76	41
6,031	6,376	345		9			95	42
5,158	3,501	346		52		13		43
5,571	6,040	469			105		632	44
8,326	6,615	279			69		79	45
4,985	4,914		74		56		44	46
6,223	7,027	804			144		512	47
9,957	10,860	903		366		623		48
4,324	4,365	41		10			72	49
7,163	7,223	60			136		615	50
3,842	4,008	206				231		51

ANALYSIS OF VOTE OF OHIO FOR 1876 AND 1877—Continued.

Number.	Counties.	Aggregate vote, Nov., 1876.	Aggregate vote, Oct., 1877.	Vote of October, 1877, compared with November, 1876.					
				Change in aggregate.		Change in Democratic vote.		Change in Republican vote.	
				Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.
52	Medina.....	5,342	4,569	.....	773	.....	259	.....	571
53	Meigs.....	6,768	5,616	.....	1,152	.....	595	.....	977
54	Mercer.....	3,976	2,609	.....	1,367	.....	964	.....	420
55	Miami.....	7,931	6,718	.....	1,213	.....	494	.....	824
56	Monroe.....	5,281	4,053	.....	1,228	.....	878	.....	370
57	Montgomery.....	16,919	14,952	.....	1,967	.....	1,041	.....	1,610
58	Morgan.....	4,591	4,209	.....	382	.....	127	.....	311
59	Morrow.....	4,600	4,148	.....	452	.....	101	.....	508
60	Muskingum.....	10,758	9,687	.....	1,071	.....	463	.....	940
61	Noble.....	4,380	4,134	.....	246	.....	59	.....	167
62	Ottawa.....	3,556	3,029	.....	527	.....	264	.....	■
63	Paulding.....	2,493	2,021	.....	472	.....	196	.....	340
64	Perry.....	5,181	4,840	.....	341	.....	289	.....	391
65	Pickaway.....	5,961	5,324	.....	637	.....	252	.....	409
66	Pike.....	3,662	2,924	.....	738	.....	385	.....	340
67	Portage.....	6,767	6,030	.....	737	.....	382	.....	681
68	Preble.....	5,638	5,040	.....	598	.....	195	.....	543
69	Putnam.....	4,789	3,849	.....	940	.....	560	.....	423
70	Richland.....	8,075	7,394	.....	681	.....	220	.....	558
71	Ross.....	8,657	7,664	.....	993	.....	347	.....	732
72	Sandusky.....	8,409	5,507	.....	902	.....	292	.....	712
73	Scioto.....	6,392	5,550	.....	842	.....	121	.....	749
74	Seneca.....	8,351	7,120	.....	1,231	.....	570	.....	784
75	Shelby.....	5,126	4,222	.....	904	.....	597	.....	420
76	Stark.....	13,335	11,920	.....	1,415	.....	829	.....	1,491
77	Summit.....	8,952	7,661	.....	1,291	.....	656	.....	1,425
78	Trumbull.....	9,617	7,973	.....	1,644	.....	446	.....	1,370
79	Tuscarawas.....	8,132	7,092	.....	1,040	.....	586	.....	716
80	Union.....	5,036	4,540	.....	496	.....	149	.....	409
81	Van Wert.....	4,708	4,214	.....	494	.....	271	.....	334
82	Vinton.....	3,375	3,025	.....	350	.....	68	.....	283
■	Warren.....	6,713	5,562	.....	1,151	.....	472	.....	753
84	Washington.....	8,885	7,643	.....	1,242	.....	439	.....	897
85	Wayne.....	8,641	7,575	.....	1,066	.....	484	.....	766
86	Williams.....	5,269	4,661	.....	608	.....	239	.....	■
87	Wood.....	7,355	5,395	.....	1,960	.....	733	.....	1,360
88	Wyandot.....	4,701	4,167	.....	534	.....	214	.....	357
Totals.....		659,771	557,503	.....	102,268	22	51,680	.....	81,576

ANALYSIS OF VOTE OF OHIO FOR 1877 AND 1878—Continued.

Aggregate vote, Oct., 1877.	Aggregate vote, Oct., 1878.	Vote of October, 1878, compared with October, 1877.						Number.
		Change in aggregate.		Change in Democratic vote.		Change in Republican vote.		
		Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	
4,569	4,539	-----	30	-----	152	61	-----	52
5,616	6,453	837	-----	247	-----	693	-----	53
2,609	3,129	520	-----	306	-----	152	-----	54
6,718	6,850	132	-----	-----	181	250	-----	55
4,053	4,148	95	-----	20	-----	-----	8	56
14,952	16,335	1,383	-----	642	-----	1,056	-----	57
4,209	4,410	201	-----	60	-----	104	-----	58
4,148	4,338	190	-----	-----	90	184	-----	59
9,687	9,997	310	-----	-----	166	292	-----	60
4,134	4,078	-----	56	-----	229	-----	339	61
3,029	3,317	288	-----	41	-----	-----	207	62
2,021	2,335	314	-----	113	-----	198	-----	63
4,840	5,359	519	-----	-----	99	153	-----	64
5,324	5,713	389	-----	-----	167	147	-----	65
2,924	3,472	548	-----	305	-----	189	-----	66
6,030	6,159	129	-----	-----	173	190	-----	67
5,040	5,285	245	-----	40	-----	134	-----	68
3,849	3,328	-----	21	-----	66	-----	73	69
7,384	6,907	-----	477	-----	347	-----	163	70
7,664	8,297	633	-----	-----	14	470	-----	71
5,507	6,187	680	-----	-----	319	408	-----	72
5,550	6,206	656	-----	69	-----	569	-----	73
7,120	8,044	924	-----	265	-----	336	-----	74
4,222	4,222	-----	-----	-----	204	49	-----	75
11,920	11,729	-----	191	-----	688	536	-----	76
7,661	8,108	447	-----	-----	48	293	-----	77
7,973	7,437	-----	536	-----	432	-----	464	78
7,092	6,972	-----	120	-----	381	-----	181	79
4,540	4,227	-----	313	-----	334	-----	94	80
4,214	4,397	183	-----	75	-----	158	-----	81
3,025	3,267	242	-----	46	-----	200	-----	82
5,562	6,155	593	-----	235	-----	405	-----	83
7,643	7,992	349	-----	-----	192	162	-----	84
7,575	8,136	561	-----	51	-----	465	-----	85
4,661	4,830	169	-----	-----	27	-----	61	86
5,395	6,668	1,273	-----	178	-----	182	-----	87
4,167	4,382	215	-----	43	-----	185	-----	88
557,503	591,088	37,095	3,510	10,704	11,363	27,753	2,738	

ABSTRACT OF VOTES CAST FOR REPRESENTATIVES TO THE FORTY-SIXTH CONGRESS OF THE UNITED STATES FROM THE STATE OF OHIO IN 1878.

FIRST DISTRICT.

County.	Benjamin Butterworth.	Milton Saylor.	Milford Spohn.	Peter H. Clark.	W. G. Halpin.
Hamilton	12,756	12,036	156	275	16
Majority	720				

SECOND DISTRICT.

County.	Thomas L. Young.	Leonard W. Goss.	Geo. W. Platt.	Solomon Ruthenburg.	Scatter- ing.
Hamilton	12,914	11,940	272	260	3
Majority	974				

THIRD DISTRICT.

Counties.	Emanuel Schultz.	John A. McMahon.	Michael P. Nolan.	David Staley.
Montgomery	7616	8302	244	112
Butler	2905	4849	72	.....
Warren	3831	2286	12	15
Totals	14,352	15,437	328	127
Majority		1,085		

FOURTH DISTRICT.

Counties.	J. Warren Keifer.	William V. Marquis.	W. A. Hance.	S. K. Spahr.	Scatter- ing.
Champaign	3291	2425	64	118	.....
Clarke	4143	2813	464	276	1
Greene	3375	1881	94	41	.....
Logan	2639	2109	88	45	.....
Union	2447	1577	190	2	.....
Totals	15,895	10,805	900	482	1
Majority	5,090				

FIFTH DISTRICT.

Counties.	Harrison Wilson.	Benjamin Le Fever.	Stephen Johnson.	John H. Blackford.	Scattering.
Auglaize	1065	2193	342	.....	.....
Darke	2977	3933	449	20	7
Mercer	854	1978	241	.....	.....
Miami	3722	2164	824	94	.....
Preble	2638	2316	64	205	.....
Shelby	1587	2092	472	.....	.....
Totals	12,843	14,676	2392	319	7
Majority		1,833			

SIXTH DISTRICT.

Counties.	James L. Price.	William D. Hill.	William C. Holgate.	Scattering.
Allen	1866	2834	232	.....
Defiance	1015	2092	363	.....
Fulton	2009	1332	563	.....
Henry	607	1816	682	.....
Paulding	1136	1093	103	.....
Putnam	1051	2502	253	.....
Van Wert	2144	2169	53	1
Williams	2244	2272	295	.....
Totals	12,072	16,110	2,544	1
Majority		4,038		

SEVENTH DISTRICT.

Counties.	James B. Luckey.	Frank H. Hurd.	Henry Kahlo.	W. G. Waters.	Scattering.
Hancock	2343	2732	443	.....	.....
Lucas	3137	3546	4094	4	.....
Ottawa	1027	1693	580	.....	.....
Sandusky	1920	2697	1527	.....	.....
Wood	2851	2514	1249	.....	3
Totals	11,278	13,182	7893	4	3
Majority		1,904			

EIGHTH DISTRICT.

Counties.	Charles Foster.	Ebenezer B. Finley.	Orlando C. Brown.	Martin Deal.	Scatter- ing.
Crawford	2232	3255	217	43	.....
Hardin	3020	2706	4	59	.....
Marion	1850	2130	59	34	.....
Morrow	2176	1826	157	144	4
Seneca	3710	3966	421	.....	.....
Wyandot	1994	2354	2	.....	.....
Totals	14,982	16,237	860	280	4
Majority		1,255			

NINTH DISTRICT.

Counties. .	Lorenzo English.	George L. Converse.	Christopher Lewis.	James H. Coulter.	Scatter- ing.
Delaware	2856	2565	101	310	.....
Fayette	2292	1956	86	.....	.....
Franklin	7176	7900	964	119	2
Madison	2100	2135	28	79	.....
Pickaway	2374	3230	96	.....	.....
Totals	16,798	17,786	1275	508	2
Majority		988			

TENTH DISTRICT.

Counties.	Valentine B. Horton.	Thomas Ewing.	Francis F. Smart.	Henry S. Scott.	Scatter- ing.
Fairfield	2572	4354	.....	.....	.....
Gallia	2777	2292	.....	.....	.....
Hocking	1419	1971	76	.....	.....
Meigs	3961	2328	100	27	18
Vinton	1516	1734	.....	.....	.....
Totals	12,245	12,679	176	27	18
Majority		434			

ELEVENTH DISTRICT.

Counties.	W. W. McKnight.	Henry L. Dickey.	John R. Printy.	Scatter- ing.
Adams	2403	2499	4	.....
Brown	2307	3771	154	1
Clermont	3025	3733	946	.....
Clinton	3123	1968	1	4
Highland	3128	3384	2	1
Totals	13,986	15,355	1107	6
Majority		1,369		

TWELFTH DISTRICT.

Counties.	Henry S. Neal.	James Emmitt.	William M. Suiter.	Wm. J. Kirkendall.	Scattering.
Jackson	2349	1922	32	69	3
Lawrence	3499	2088	394	16	.....
Pike	1374	1900	88	37	.....
Ross	4102	3722	297	.....	1
Scioto	3242	2858	31	.....	9
Totals	14,566	12,490	842	122	13
Majority	2,076				

THIRTEENTH DISTRICT.

Counties.	Nelson H. Van Voorhes	A. J. Warner.	George E. Geddes.	J. M. McElhinny.	Scattering.
Athens	2934	1740	362	155	.....
Monroe	1172	2779	136	2	.....
Morgan	2201	2037	38	112	.....
Noble	1760	1807	464	8	.....
Washington	3760	3587	487	37	1
Totals	11,827	11,950	1487	314	1
Majority		123			

FOURTEENTH DISTRICT.

Counties.	Isaac Morton.	Gibson Atherton.	Thomas J. McGinnis.	Scattering.
Guernsey	2673	2325	196	.....
Licking	2943	4589	931	.....
Muskingum	4540	4783	588	1
Perry	1907	2653	776	.....
Totals	12,063	14,350	2,491	1
Majority .....	.....	2,287		

FIFTEENTH DISTRICT.

Counties.	Goshorn A. Jones.	George W. Geddes.	George W. Pepper.	Charles W. Kohr.	Scattering.
Coshooton	2332	2889	106	5	1
Holmes	993	2298	5	2	.....
Knox	2299	2983	881	172	.....
Richland	2809	3865	86	69	.....
Tuscarawas	2596	3562	771	8	.....
Totals	11,029	15,597	1,849	256	1
Majority .....	.....	4,568			

SIXTEENTH DISTRICT.

Counties.	William M'Kinley, Jr.	Aquila Wiley.	Alfred M. Hunter.	James A. Brush.
Ashland	2435	2731	7	.....
Portage	3245	2469	378	56
Stark	5931	5027	719	38
Wayne	3578	4028	168	.....
Totals	15,489	14,255	1,272	94
Majority	1,234			

SEVENTEENTH DISTRICT.

Counties.	James Monroe.	Lewis Miller.	Scatter- ing.
Erie	2613	3069	.....
Huron	3415	3344	.....
Lorain	4450	2515	.....
Medina	2648	1853	.....
Summit	4087	3794	1
Totals	17,213	14,575	1
Majority	2,638		

EIGHTEENTH DISTRICT.

Counties.	Jonathan T. Updegraff.	Daniel T. Lawson.	George Smith.	William M. Grimes.	David F. Lawson.
Belmont	3842	4305	685	3	.....
Carroll	1899	1270	96	3	90
Columbiana	4294	3076	839	.....	.....
Harrison	2077	1768	80	11	.....
Jefferson	3208	2174	531	20	.....
Totals	15,320	12,593	2,231	37	90
Majority	2,727				

NINETEENTH DISTRICT.

Counties.	James A. Garfield.	John C. Hubbard.	Grandison N. Tuttle.	C. W. Reeves.	Scatter- ing.
Ashtabula	4916	1566	386	.....	16
Geauga	2208	441	247	.....	1
Lake	2161	757	528	.....	.....
Mahoning	3592	2647	1181	.....	.....
Trumbull	4289	2142	806	98	.....
Totals	17,166	7,553	3,148	98	17
Majority	9,613				

TWENTIETH DISTRICT.

Counties.	Amos Townsend.	Joseph M. Poe.	William H. Doan.	Gilbert O. Shove.
Cuyahoga	13,081	7,271	2,085	4,934
Majority.....	5,810			

ABSTRACT OF VOTES POLLED IN THE STATE OF OHIO AT THE ANNUAL ELECTION HELD

Number.	Counties.	Secretary of State.				
		Milton Barnes.	David R. Paige.	Jeremiah N. Robinson.	Andrew Roy.	Scattering.
1	Adams	2149	2549	9	7	.....
2	Allen	1871	2357	4	230	.....
3	Ashtabula	2335	2838	8	2	.....
4	Ashtabula	4954	1518	197	359	.....
5	Athens	2687	1731	327	447	.....
6	Auglaize	1028	2416	.....	185	.....
7	Belmont	3953	428	8	689	.....
8	Brown	2228	3835	.....	187	.....
9	Butler	2737	5027	17	52	.....
10	Carroll	1904	1354	5	99	.....
11	Champaign	3282	2425	119	57	.....
12	Clarke	4142	2857	500	244	.....
13	Clermont	2912	3725	1	1029	.....
14	Clinton	3103	1927	71	1	8
15	Columbiana	4395	2976	16	968	.....
16	Coshocton	2318	2877	20	108	.....
17	Crawford	1924	3489	113	258	.....
18	Cuyahoga	12849	8111	685	5743	.....
19	Darke	2980	4202	20	254	.....
20	DeLance	1077	2149	.....	245	.....
21	Delaware	2832	2585	352	78	.....
22	Erie	2600	2558	11	524	.....
23	Fairfield	2557	4365	9	.....	.....
24	Fayette	2310	1936	.....	63	11
25	Franklin	6555	8371	143	1142	1
26	Fulton	2013	1299	17	522	.....
27	Gallia	2801	2251	10	4	.....
28	Geauga	2235	492	36	190	.....
29	Greene	3380	1886	89	37	.....
30	Guernsey	2843	2320	25	118	.....
31	Hamilton	25622	24468	8	503	.....
32	Hancock	2363	2804	8	362	.....
33	Hardin	2908	2786	96	6	.....
34	Harrison	2129	1739	11	90	.....
35	Henry	767	1863	.....	507	.....
36	Highland	3191	3338	7	.....	.....
37	Hocking	1355	1820	.....	272	.....
38	Holmes	901	2404	2	17	.....
39	Huron	3386	1514	136	1814	.....
40	Jackson	2294	2011	34	66	.....
41	Jefferson	3254	2156	49	525	.....
42	Knox	2493	3072	189	601	.....
43	Lake	2172	958	2	356	.....
44	Lawrence	3282	2112	32	382	.....
45	Licking	3061	4650	63	907	.....
46	Logan	2761	1989	99	42	.....
47	Lorain	4398	2018	90	485	.....
48	Lucas	3294	3521	11	3993	.....
49	Madison	2093	2137	108	28	.....

ON THE EIGHTH DAY OF OCTOBER, A.D 1878, TAKEN FROM THE OFFICIAL RETURNS.

Judge of the Supreme Court.					Member of the Board of Public Works.					Total number of votes.	Number.
William White.	Alexander F. Hume.	William F. Ross.	Chilton A. White.	Scattering.	George Paul.	Rush H. Field.	Delmont Leake.	J. R. Fallis.	Scattering.		
2334	2549	9	10	..	2353	2544	9	..	7	4957	■
1873	2556	4	228	..	1874	2855	4	229	..	4975	■
2335	2536	2	7	..	2334	2539	8	7	..	5205	■
49-4	1513	200	361	..	49-4	1514	199	363	..	7139	■
2692	1767	323	437	..	2691	1740	322	437	..	5208	■
1-27	2419	..	186	..	1-27	2419	..	186	..	3691	■
3931	4250	7	686	..	3929	4250	7	686	..	8887	■
2157	3-95	..	179	..	2230	32-32	..	187	..	6266	■
2355	5347	14	40	..	2718	5048	15	51	..	7907	■
1890	1351	5	100	..	1907	1361	5	100	..	3359	■
32-2	2430	116	57	..	3266	2466	107	57	..	5918	■
4737	2345	425	237	..	4130	2856	488	245	..	7799	■
3020	3729	1	859	1	2934	3723	1	1030	..	7724	■
3098	1927	70	2	..	3094	1927	69	1	3	5131	■
4401	2974	17	860	..	4394	2979	17	856	..	8277	■
2339	2405	21	84	..	2434	2901	21	87	..	5344	■
1920	3494	113	258	..	1911	3500	114	258	..	5798	■
12789	50-8	694	5726	..	12741	5159	691	5625	..	27400	■
2975	4203	20	259	..	29-9	4200	20	261	..	7493	■
1073	2149	..	288	..	107-1	2149	..	289	..	3517	■
2229	25-8	354	75	..	2231	2590	356	71	..	5880	■
2615	2536	11	526	..	2506	2553	11	529	..	5702	■
2-52	4373	9	..	..	2547	4378	9	..	..	6946	■
2333	1939	..	53	20	2333	1938	..	63	..	4299	■
6542	8400	149	1112	..	64-0	8442	154	1115	..	16228	■
2015	1229	14	5-2	..	2013	1300	14	583	..	3936	■
2-02	2255	9	1	..	2-01	2256	9	..	..	5084	■
2239	492	36	189	..	2235	490	38	193	..	2962	■
3364	1688	77	38	..	3378	1692	89	38	..	5479	■
2761	2394	29	121	..	2754	2395	29	124	..	5317	■
25563	24483	8	498	..	25634	24439	8	497	..	51195	■
2164	2806	8	362	..	2362	2806	8	363	..	5535	■
2907	2783	95	4	..	2905	2787	95	4	..	5804	■
2130	1741	11	89	..	2127	1744	10	76	..	3976	■
765	1867	..	505	..	762	1866	..	514	..	3148	■
3190	3337	7	1	..	3186	3337	5	..	..	6556	■
1356	1806	..	296	..	1355	1802	..	297	..	3481	■
908	2400	2	17	..	904	2403	2	17	..	3320	■
3365	1512	137	1813	..	3368	1513	..	1806	..	6849	■
2306	2012	34	54	..	2305	2014	34	52	..	4407	■
32-0	2180	49	516	..	3262	2157	50	514	..	6005	■
2472	3079	194	609	..	2471	3078	197	609	..	7077	■
2242	531	2	405	4	2245	535	2	405	..	3501	■
32-3	2275	32	429	..	3281	2279	34	431	..	6040	■
3009	4685	66	530	1	3004	4681	64	532	..	8615	■
2764	1961	112	37	..	2755	1955	102	44	..	4914	■
4411	2007	98	487	..	4399	2014	103	488	..	7027	■
3274	3522	11	4001	..	3222	3536	11	4040	..	10860	■
2099	2136	90	26	..	2097	2139	90	27	..	4366	■

ABSTRACT OF VOTES POLLED IN THE STATE OF OHIO AT THE ANNUAL

Number.	Counties.	Secretary of State.				
		Milton Earne.	David R. Paige.	Jeremiah N. Robinson.	Andrew Roy.	Scattering.
50	Mahoning	3562	2684	.....	1184	.....
51	Marion	1770	2196	46	61	.....
52	Medina	2609	1781	49	71	.....
53	Meigs	3679	2425	99	236	.....
54	Mercer	680	2182	.....	5	.....
55	Miami	3814	2634	93	87	.....
56	Monroe	1084	2947	3	86	.....
57	Montgomery	7367	6572	127	254	.....
58	Morgan	2169	2041	146	43	.....
59	Morrow	2126	1855	172	164	.....
60	Muskingum	4584	4825	60	495	6
61	Noble	1719	1808	24	527	.....
62	Ottawa	739	1925	.....	588	.....
63	Paulding	1171	1097	.....	67	.....
64	Perry	1916	2620	.....	823	.....
65	Pickaway	2303	3304	2	97	.....
66	Pike	1314	2016	39	103	.....
67	Portage	3221	2451	73	408	.....
68	Preble	2595	2396	244	31	.....
69	Putnam	1110	2548	.....	162	.....
70	Richland	2928	3640	77	61	.....
71	Rose	3915	4070	.....	292	.....
72	Sandusky	1912	2718	40	1504	.....
73	Scioto	3179	2973	9	26	.....
74	Seneca	3345	4210	.....	544	.....
75	Shelby	1614	2340	5	263	.....
76	Stark	5455	5255	69	969	.....
77	Summit	3923	3200	121	763	1
78	Trumbull	4299	2152	109	822	.....
79	Tuscarawas	2677	3578	.....	687	.....
80	Union	2436	1590	184	5	.....
81	Van Wert	2116	2214	6	52	.....
82	Vinton	1450	1795	.....	17	.....
83	Warren	3798	2322	18	6	.....
84	Washington	3626	3861	44	460	1
85	Wayne	3708	4165	5	230	.....
86	Williams	2269	2280	5	269	.....
87	Wood	2901	2690	27	1041	.....
88	Wyandot	1807	2448	12	2	.....
Totals		274,120	270,966	5692	36,332	26

ELECTION HELD ON THE EIGHTH DAY OF OCTOBER, A.D. 1878—Continued.

Judge of the Supreme Court.					Member of the Board of Public Works.					Total number of votes.	Number.
William White.	Alexander F. Hume.	William F. Ross.	Chilton A. White.	Scattering.	George Paul.	Rush H. Field.	Delmont Locke.	J. R. Fallis.	Scattering.		
3647	2700	.....	1092	...	3644	2700	.....	1093	....	7223	50
1755	2208	48	61	...	1763	2200	50	61	....	4088	51
2619	1783	44	64	...	2615	1785	43	67	....	4539	52
3690	2421	100	229	...	3689	2421	100	230	....	6453	53
859	2185	.....	5	...	861	2182	.....	5	....	3129	54
3410	2834	100	85	....	3804	2859	106	86	....	6850	55
1050	2949	3	87	..	1078	2948	3	89	....	4148	56
7352	8580	126	258	....	7350	8533	130	257	....	16335	57
2168	2048	141	43	...	2167	2048	140	43	....	4410	58
2128	1854	174	161	3	2124	1857	172	163	2	4338	59
4542	4868	49	500	6	4499	4904	51	505	6	9987	60
1709	1811	34	526	....	1706	1812	35	527	....	4078	61
736	1986	.....	588	...	735	1985	.....	589	....	3317	62
1171	1097	....	68	....	1170	1097	.....	68	...	2335	63
1905	2621	.....	835	..	1923	2625	.....	833	....	5359	64
2302	3307	2	97	...	2299	3309	2	97	....	5713	65
1312	2016	40	104	....	1313	2015	39	103	....	3472	66
3232	2436	73	410	...	3230	2442	73	407	....	6159	67
2503	2498	232	27	....	2593	2400	239	30	...	5285	68
1109	2546	..	164	....	1106	2545	....	166	...	3828	69
2924	3834	78	64	...	2867	3846	77	60	....	6907	70
3922	4065	....	287	....	3907	4073	....	291	....	8297	71
1909	2718	40	1506	...	1903	2741	40	1508	....	6187	72
3179	2974	8	26	....	3180	2975	8	26	....	6206	73
3346	4215	.....	539	...	3300	4261	....	536	....	8044	74
1611	2345	5	262	...	1600	2353	5	256	....	4222	75
5507	5256	71	909	...	5450	5321	69	905	....	11729	76
4049	2991	131	899	1	4254	2819	126	859	....	8108	77
4396	2154	110	754	...	4390	2153	110	757	....	7437	78
2691	3569	9	681	...	2658	3809	8	670	....	6972	79
2432	1593	184	5	....	2428	1594	186	5	....	4227	80
2118	2213	6	51	...	2120	2209	6	52	....	4397	81
1454	1795	.....	11	...	1454	1795	.....	11	....	3267	82
3784	2332	17	5	....	3800	2320	18	6	....	6155	83
3627	3857	46	460	...	3630	3873	46	466	....	7992	84
3730	4173	3	203	....	3725	4173	3	203	....	8136	85
2271	2280	5	269	....	2271	2280	5	269	....	4830	86
2900	2685	27	1043	....	2894	2687	28	1045	....	6668	87
1903	2452	12	2	....	1902	2452	11	2	....	4382	88
274,337	270,839	5607	37,926	36	273,927	271,178	5685	38,033	18	591,088	

STATE ELECTIONS—1876, 1877, AND 1878.

ADAMS COUNTY.

Townships and Wards.	President—1876.			Governor—1877.						Secretary of State—1878.					
	Samuel J. Tilden.	R. B. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis R. Bond.	Henry A. Thompson.	Stephen Johnson.	Total vote.	Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	Total vote.	
Bratton				72	102					174	306	124		234	
Franklin	236	174	513	94	187					282	92	159		292	
Green	223	159	381	135	175					311	161	225		395	
Jefferson	304	225	529	197	246					441	319	278		599	
Liberty	121	191	315	170	132					292	189	111		392	
Manchester	119	171	290	143	117		10			272	174	132		315	
Meigs	226	145	373	110	174					284	159	263		422	
Monroe	175	110	287	89	147					231	104	178		293	
Oliver	126	91	213	76	125					251	92	131		293	
Scott	102	177	277	135	62					198	156	104		290	
Spring	309	223	531	197	290					489	244	320		568	
Tilden	226	132	490	124	273					359	170	290		442	
Wayne	83	163	255	163	76		2			245	104	63	5	291	
Winchester	141	190	320	165	136		2			312	189	148	4	341	
Totals	2546	2141	4740	1892	2221		24			4121	2340	2540	7	9	4657

ALLEN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Amada	167	90	258	68	123			1		194	58	113			175
Anglaise	142	233	375	201	137		1	4		351	197	148			346
Bath	157	139	296	95	142					293	83	146			299
German	247	97	347	56	205		9	2		275	79	185			277
Jackson	273	130	403	112	242					354	127	218			351
Lima—															
First Ward	230	280	509	223	210			43		498	204	181	23		478
Second "	168	263	435	231	178		2			421	211	183	32		411
Third "	273	67	342	47	238			13		227	58	216	13		290
Marion	519	240	759	201	438			56		710	224	434	43		704
Monroe	282	221	503	188	122			1		375	167	173			340
Ottawa	44	47	91	12	7					10	11	7			19
Perry	179	135	339	113	161			4		279	96	164	5		264
Richland	414	174	588												
Bluffton Precinct				79	249					329	43	223			296
Beaver Dam Precinct				83	116					199		95			173
Shawnee	155	99	253	76	135		1			213		120	1	4	199
Spencer	221	94	317	46	176			15		239	38	155	22		210
Sugar Creek	117	122	239	113	102					216	107	100			216
Totals	3518	2481	6030	1954	3040		13	150		5195	1871	2857	230	4	4975

SECRETARY OF STATE.

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ASHLAND COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jess. N. Robinson.			
Clear Creek.....	81	196	279	173	75	..	2	..	257	129	89	..	..	..	277
Green.....	290	203	294	154	276	..	..	..	432	159	256	..	..	..	418
First Ward.....	..	..	..	..	..	..	..	..	..	34	33	..	1	..	67
Second Ward.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hanover.....	380	184	566	150	339	..	1	..	501	114	151	..	..	..	272
First Ward.....	..	..	..	..	..	..	..	..	..	49	130	..	..	..	181
Second Ward.....	..	..	..	..	..	..	..	..	..	102	188	..	..	..	293
Jackson.....	205	114	323	100	208	..	2	..	304	173	30	140	..	..	171
Lake.....	146	37	179	29	144	..	..	..	173	548	524	..	..	..	1078
Montgomery.....	496	510	1007	484	493	..	..	1	980	247	68	198	..	..	471
Milton.....	194	75	270	68	179	..	..	..	247	49	129	..	..	..	172
Mifflin.....	132	53	185	50	127	..	..	..	177	333	224	..	..	..	347
Mohican.....	260	106	360	107	225	..	1	..	333	144	197	..	..	..	341
Orange.....	200	153	355	120	194	..	1	1	316	300	140	160	..	7	316	
Perry.....	181	157	338	137	161	..	..	..	300	126	41	..	..	..	169
Ruggles.....	43	140	186	124	46	..	..	..	170	144	53	..	..	..	200
Sullivan.....	54	143	194	142	46	..	..	1	190	115	69	..	..	..	185
Troy.....	68	136	201	115	51	..	..	..	167	168	260	..	..	..	447
Vermillion.....	291	173	471	169	296	..	2	..	436	..	..	..	..	..	..
Totals.....	3021	2327	5432	2121	2824	..	9	3	4071	2335	2838	2	8	..	5205	

ASHTABULA COUNTY.

Townships and Wards.	President—1876.			Governor—1877						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Andover.....	42	241	291	212	47	..	4	..	264	213	24	6	7	..	250	
Ashtabula.....	491	623	1130	350	736	..	6	37	713	323	261	95	7	..	608	
Austintown.....	53	252	320	213	54	..	..	..	268	263	37	14	..	..	257
Cherry Valley.....	44	147	193	115	46	..	5	..	160	123	33	2	2	..	158	
Colebrook.....	66	175	234	141	54	..	2	..	197	181	28	13	..	..	166
Conneaut.....	170	571	746	424	134	..	4	13	573	412	180	13	..	..	556
Denmark.....	49	94	137	58	42	..	2	..	102	51	31	..	..	..	99
Dorset.....	54	97	151	70	44	..	2	..	117	65	35	..	10	..	119	
Genova.....	127	586	713	429	121	..	13	..	630	480	97	9	44	..	632	
Harpersfield.....	40	236	296	184	34	..	..	..	218	184	26	10	..	..	224
Hartgrove.....	63	139	204	106	53	..	..	..	169	103	46	17	1	..	167
Jefferson.....	104	377	485	327	99	..	3	10	431	338	101	..	10	..	451	
Kingsville.....	109	306	415	238	100	..	5	..	343	218	79	1	1	..	380	
Lenox.....	42	177	219	150	34	..	1	..	185	143	99	..	5	..	177	
Monroe.....	62	317	381	204	49	..	2	..	257	206	33	2	6	..	248	
Morgan.....	69	277	340	213	76	..	1	..	290	210	48	27	12	..	297	
New Lyme.....	59	144	205	115	58	..	4	..	180	127	63	2	6	..	199	
Orwell.....	82	170	252	136	75	..	..	..	212	124	68	1	5	..	192
Pierpont.....	43	238	281	215	27	..	..	..	229	155	14	33	1	..	203
Plymouth.....	61	192	254	96	56	..	1	..	154	98	39	11	..	..	149
Richmond.....	58	163	228	127	56	..	11	..	194	117	49	4	20	..	199	
Rome.....	39	143	182	128	36	..	..	..	211	118	27	7	..	..	150
Raybrook.....	138	220	361	107	112	..	4	..	296	156	93	25	3	..	277	
Sheffield.....	32	154	192	101	33	..	..	..	135	86	22	7	..	..	115
Trumbull.....	46	209	255	148	49	..	3	..	198	127	37	58	3	..	216	
Wayne.....	22	191	230	136	22	..	1	..	140	146	14	..	1	..	163	
Williamfield.....	74	178	254	116	50	..	17	..	224	103	33	1	17	..	154	
Windsor.....	45	204	250	156	38	..	..	..	194	154	41	..	6	..	201
Totals.....	2294	6771	9119	5151	1930	..	38	63	7309	4924	1518	359	187	..	7130	

ANNUAL REPORT.

ATHENS COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Athens	202	606	822	492	262		42		800	565	201	74	13	81	228
Ames	72	212	332	187	242				246	126	142	87			265
Alexander	106	191	297	156	242		16		272	142	87	87			260
Bern	43	191	235	136	242				175	158	33	33			183
Canaan	197	120	317	82	182				277	85	176		1		261
Carthage	126	143	269	103	85				189	102	84	10			214
Dover	131	222	351	167	122				259	122	100	80			222
Lee	63	201	266	124	242		24		238	122	86	2			240
Lodi	184	167	351	187	154		20		282	94	130	74	12		260
Rome	170	304	473	194	110		17		311	224	92	18			269
Trimble	23	140	163	111	96				211	136	74	12			224
Troy	170	251	421	177	114		25		317	187	131	29			271
Waterloo	220	223	443	165	178		1		344	187	132	19			256
York	454	466	820	337	424			13	837	365	358	335			1037
Totals	2165	3413	5728	2568	2031		145	15	4798	2687	1731	447	327		5908

AUGLAIZE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Clay	147	104	251	73	75	.	.	.	144	71	92	.	.	163	
Duchonquet	262	164	426	123	172	.	.	.	294	122	64	.	.	256	
Wapakoneta—															
1st Ward	74	39	113	31	72	.	.	.	123	34	66	.	.	101	
2d "	148	85	233	72	110	5	.	.	190	66	112	.	.	189	
3d "	135	51	186	38	113	.	.	.	152	72	126	.	.	158	
German	301	95	396	64	120	.	.	3	201	52	162	111	.	367	
Goshen	94	81	181	61	67	.	.	.	128	60	72	.	.	134	
Jackson	222	5	227	3	237	.	.	.	294	4	270	38	.	339	
Logan	155	65	220	38	96	.	.	.	134	19	60	.	.	110	
Moulton	183	84	267	76	145	.	.	.	228	47	103	1	.	156	
Noble	199	57	256	40	107	.	.	.	147	49	131	.	.	174	
Pacheta	222	64	286	44	160	1	.	.	213	39	160	.	.	199	
Salem	176	71	247	35	118	.	.	.	154	35	137	3	.	177	
St. Mary's	501	170	671	105	374	.	.	.	455	109	416	27	.	556	
Union	218	100	318	76	156	1	.	.	236	84	174	.	.	276	
Washington	94	152	246	122	49	.	.	.	174	82	48	.	.	139	
Wayne	151	123	274	114	99	.	.	.	213	117	94	.	.	214	
Totals	2560	1521	5087	1121	2339	7	.	3	3459	1028	2416	185	.	3691	

BELMONT COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State— 1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Fisshop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jer. N. Robinson.		
Ballair City—															
1st Ward	75	135	212	83	68			36	187	79	47	67			195
2d "	233	161	395	77	213			7	299	62	169	48			298
3d "	169	157	326	137	154			17	309	131	127	47			304
4th "	138	201	338	143	136			29	308	144	103	64			312
5th "	60	166	227	72	48			67	206	79	34	83			195
Colerain	129	209	339	171	131		1	4	307	168	124		1		292
Flushing	123	233	357												
Flushing Prec't				155	87				242	157	103	3			264
Belmont Ridge Prec't.				60	42			3	105	58	41	2			103
Goshen	231	235	477	198	210			23	431	156	123	78			416
Kirkwood	149	260	427												
Hendrysbrough Prec't				134	138		1	22	296	135	86	65			287
Sewallsville Prec't				72	19			19	110	49	20	39			109
Mead	281	141	405	106	197				383	65	104	11			290
Pearce—															
Bridgeport Prec't.	236	350	587	341	213			10	564	322	182	8			513
Martin's Ferry Prec't	453	490	948	378	367		3	54	819	397	352	65	1		614
Paltney	262	201	464	138	230			21	389	123	120	26			339
Richland—															
St. Clairsville Prec't	472	350	825	330	489		11		812	342	450	6	3		805
Glencoe Prec't	175	59	234	39	163		3		209	41	147	8			197
Smith	223	190	349	95	209		10		317	97	223	3	2		394
Somerset	230	230	462	172	207		9		392	163	204	3			371
Union	241	187	429	168	235		5		429	171	214	21			406
Warren	419	603	1026	502	411		23	14	959	553	361	29	1		953
Washington	144	168	314	139	134				272	138	127	1			273
Wayne	221	141	364	120	191				313	108	167	1			277
Wheeling	185	127	312	112	178				290	107	121				220
York	202	111	313	94	180				284	78	126	3			261
Totals	5924	4976	10064	4055	4632		61	358	1154	3953	1218	689	8		8887

BROWN COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877						Total vote.	Secretary of State— 1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H West.	Richard M. Bishop.	Lewis H. Bond	Henry A. Thompson	Stephen Johnson	Milton Barnes.		David R. Paige.	Andrew Roy.	Jer. N Robinson.		
Byrd	113	174	287	150	100				250	163	101			264	
Clark	246	80	327	87	129				257	67	240	1		317	
Eagle	164	107	271	73	122				194	109	150			269	
Franklin	227	43	270	31	166				197	24	220	2		229	
Green	199	134	336	113	108				314	106	217	11		335	
Huntington	401	249	650	182	297				479	290	360	3		569	
Jackson	151	72	224	50	131			2	184	70	152	3		294	
Jefferson	137	169	306	142	124				266	141	142	1		291	
Lewis—															
Higginport Precinct	237	169	441	142	197		4		345	129	190	15		240	
Freeburg Precinct	183	91	277	60	144				211	54	169	11		234	
Perry	547	96	624	51	447				500	47	516	1		554	
Pike	161	106	268	71	151				227	61	145	26		233	
Pleasant	370	285	659	200	324		1	11	539	195	331	56		583	
Scott	167	75	242	54	141				109	59	146	1		206	
Starling	205	143	338	106	147				254	91	152	32		283	
Union	428	253	685	624	372			14	1010	604	427	20		1053	
Washington	132	110	244	25	109				196	108	142	4		254	
Totals	4066	2956	7066	2211	3339		19	13	5622	2228	2835	187		6266	

BUTLER COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Leola H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Hamilton—																
1st Ward	352	218	..	206	306	29	..	..	544	163	318	5	..	..	..	495
2d "	462	196	..	60	405	35	..	..	536	145	365	8	..	..	..	514
3d "	435	324	..	237	335	137	..	..	710	276	367	27	..	..	..	679
4th "	399	130	..	98	229	90	..	..	479	125	292	14	..	..	..	432
Fairfield—																
Eastern Precinct.	185	54	..	36	162	3	..	..	201	50	165	..	..	..	..	217
Western "	241	118	..	85	176	5	..	..	271	83	158	..	..	..	..	242
Hanover "	223	96	..	73	163	1	2	..	240	66	181	..	..	..	..	252
Lemon—																
Northern Precinct	622	494	..	403	552	19	..	..	977	457	571	1	..	..	..	1007
Southern "	148	92	..	66	130	5	..	..	203	79	122	..	..	..	..	299
Liberty "	207	159	..	126	165	..	..	..	291	125	156	..	..	..	..	291
Madison—																
Northern Precinct	242	110	..	107	204	1	..	..	313	91	154	..	..	..	..	297
Southern "	172	69	..	62	140	..	1	..	209	72	142	..	..	..	..	294
Milford "	350	139	..	115	269	..	..	..	483	103	203	..	..	..	..	403
Morgan "	291	123	..	69	215	2	5	..	372	90	281	..	..	..	..	375
Oxford "	243	463	..	304	224	4	..	..	596	372	255	..	..	..	..	727
Reiley "	221	60	..	69	259	..	2	..	334	61	230	..	..	..	..	366
Ross "	287	137	..	108	230	..	..	..	342	106	214	..	..	..	..	323
St. Clair "	207	81	..	50	171	..	3	..	234	51	164	..	..	..	..	218
Union "	313	101	..	172	261	3	2	..	404	121	247	..	..	..	..	370
Wayne "	247	142	..	107	212	..	5	..	327	114	203	..	..	..	..	331
Totals	6029	3351	9392	2561	4937	338	90	4	8065	2737	5027	52	17	..	7907	

CARROLL COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Angusta	79	174	253	149	80	..	..	..	330	143	72	4	..	..	219
Brown—																
Minerva Precinct	60	108	168	105	55	..	..	..	160	99	48	..	..	..	147
Malvern "	143	190	336	171	122	..	10	..	304	173	111	..	..	..	296
Centre "	138	214	354	206	140	..	..	..	348	193	119	44	..	..	357
East "	105	98	206	76	87	..	..	..	163	79	91	3	..	..	174
Fox "	91	182	274	151	71	..	..	..	223	107	62	1	..	..	225
Harrison "	26	144	231	147	22	..	..	..	231	156	20	1	..	..	237
Lee "	119	115	227	113	104	..	..	..	223	111	104	7	..	..	225
London "	103	111	215	101	111	..	..	..	213	102	111	..	..	..	226
Monroe "	122	105	233	99	126	..	..	..	224	102	91	..	..	..	226
Orange "	93	221	316	191	84	..	..	..	274	200	85	2	..	..	297
Perry "	135	98	233	74	116	..	..	..	103	21	131	1	..	..	214
Rose "	153	106	269	104	156	..	..	..	260	92	137	..	..	..	226
Union "	94	73	167	76	89	..	..	..	165	70	76	..	..	..	150
Washington	37	129	167	125	40	165	125	31	150	
Totals	1354	2060	3629	1888	1465	..	10	6	3366	1904	1354	96	5	..	3369	

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CHAMPAIGN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Adams.....	905	121	329	101	160	..	1	3	270	97	138	1	1	237	
Concord.....	152	103	257	106	146	..	..	..	256	95	140	1	11	248
Goshen.....	172	463	644	441	155	..	29	..	623	415	159	..	56	634	
Harrison.....	123	130	253	100	165	..	..	..	317	93	101	..	..	193
Jackson.....	252	223	476	203	215	..	1	..	420	213	202	3	..	421	
Johnson.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Millerstown Precinct ..	111	11	122	13	96	..	..	..	109	15	94	..	..	110
St. Pauls ".....	299	164	467	158	278	..	3	6	444	180	244	34	7	465	
Mad River.....	383	109	493	25	339	..	..	2	429	96	297	17	15	495
Esch.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lewisburgh Precinct ..	63	222	285	219	72	..	4	..	296	227	59	1	9	291	
Woodstock ".....	36	171	207	167	40	..	..	1	203	158	48	..	..	209
Salem.....	179	276	456	243	151	..	..	..	399	249	140	..	..	403
Union.....	141	244	386	191	119	1	..	..	314	124	127	..	6	325
Urbana.....	101	249	350	227	95	..	..	..	322	220	83	..	..	309
Wayne.....	125	268	395	247	107	..	..	..	354	236	98	..	10	345
Urbana.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1st Ward.....	149	331	474	292	155	..	..	..	489	314	146	..	..	465
2d ".....	137	309	449	315	133	..	..	..	476	347	151	..	5	504
3d ".....	231	135	367	230	122	..	..	..	354	138	208	..	..	348
Totals.....	2872	3528	6430	3279	2522	1	31	12	5638	3292	2425	57	119	5918	

CLARKE COUNTY.

Townships and Wards.	President--1876.		Total vote.	Governor--1877.						Total vote.	Secretary of State--1878.				Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Bethel--															
Donnelaville Precinct .	100	127	227	101	85		5	1	193	106	74	2	2	3	185
Medway " .	90	89	179	54	58			1	120	63	51				122
North Carlisle " .	63	187	250	152	55		19	19	239	167	39	28	12		247
German	327	110	441												
Lawrenceville Precinct				55	120			11	186	57	129	17	5	9	196
Trumont " .				23	141		5	5	174	27	126	5	5	9	178
Greene	63	291	355	197	26				244	213	35	5	10	26	284
Harmony .	114	227	415	201	74				303	123	87	28	5	50	343
Madison .	100	378	538	277	140		15	15	436	257	128	6	6	15	446
Mad River .	222	201	425	156	205		5	5	269	164	125	6	6	18	376
Moorefield .	117	195	312	137	68		2	2	236	168	102	6	6	4	277
Pike .	194	169	363	123	162			1	287	122	102	6	6	6	344
Pleasant .	60	302	372	211	71		14	14	299	223	49	2	25	30	303
Springfield .	307	478	792	273	193		53	53	547	384	184	30	65	65	656
Springfield City--															
1st Ward .	366	279	640	192	226		8	15	509	288	340	22	16		666
2d " .	363	413	776	231	301		30	30	539	318	22	22	22		756
3d " .	258	792	1050	476	211		55	55	778	624	225	17	86		956
4th " .	506	447	957	246	369		4	25	49	688	399	445	37	37	890
5th " .	224	372	600	246	181		27	27	477	329	186	10	57		584
Totals	3556	5136	8720	3351	2725	4	290	210	6565	4142	2957	244	500		7799

CLERMONT COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Batavia	423	394	821	338	284			58	750	214	244	145		606
Batavia Precinct										162	119	96		341
Amelia "										7	12	1		20
Bantam "										300	385	13		698
Franklin	456	366	822	268	406			6	682	147	193	71		415
Graham	210	216	426	163	201			26	393	121	177	66		367
Jackson	195	188	383	137	173			4	317					
Miami—														
Loveland Precinct	228	163	391	103	197			1	301	132	204	2		344
Milford "	156	179	329	128	156	1		1	285	144	163	9	1	320
Newberry "	59	106	158	101	53			4	158	102	64	5		171
Monroe	241	229	471											
Laurel Precinct										132	177	43		352
Bantam "										21	21	30		82
Ohio	326	391	718	181	265			53	439	353	319	53		719
Pierce	273	161	439	297	293			33	435	64	210	24		396
Stone Lick	251	175	430	125	229			25	379					
North Precinct				52	70		1	123	19	68	13			139
South "				91	146		6	5	256	101	153	13		379
Tate	342	304	659	298	281			26	606					
Tate Precinct										142	212	106		357
Bantam "										27	31	35		94
Union	305	171	477	139	263			6	408	190	238	69		418
Wayne	297	151	448	122	263			9	399	127	249	65		449
Washington—														
Nevide Precinct	110	122	232	60	106	1			196	62	111	2		195
Moscow "	95	101	196	76	113			2	191	67	100	1		199
North "	144	86	232	57	129			1	187	61	124	10		196
Williamsburg	200	356	557	378	186			12	494	221	169	126		506
Totals	4315	3848	6187	3043	3859	2	12	268	7225	2932	3725	1020	1	7794

CLINTON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Adams	26	175	204	140	23				160	153	22			175
Chester	49	229	247	200	47				277	251	49			311
Clark	133	336	461	228	28			6	350	222	136			425
Green—														
North Antioch Prec	81	132	290	126	77				203	130	80			311
North Vienna "	174	215	424	193	159		16		368	204	179		23	430
Jefferson	103	207	325	137	74		15	1	233	152	79		12	242
Liberty—														
Mt. Pleasant	26	60	107	60	25				90	74	39			119
Port Williams	61	107	170	63	50				145	69	70			183
Marion	200	217	432	155	159			6	324	178	197		1	384
Richland	257	231	514	197	226			6	427	223	247			473
Union	298	273	573	233	376				1090	793	223		6	1098
Vernon	145	221	373	121	111				213	219	120			342
Washington	152	198	357	98	137			2	237	108	152		1	308
Wayne	174	145	321	113	135				249	119	137		11	381
Wilson	127	128	256	109	103				212	132	128			266
Totals	2046	3500	5631	2766	1709		22	12	4621	3103	1927	1	71	5121

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COLUMBIANA COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Butler	112	278	390	220	25			7	333	229	79	8		317	
Center	307	524	834	451	261			13	710	402	245	28		737	
Elk Run	171	175	346	154	143			19	317	166	134	17		318	
Fairfield	251	343	594	260	231		1	102	596	283	168	99		570	
Franklin	150	57	218	46	130			21	198	86	190	30		300	
Hanover	224	334	558	278	205			5	490	287	197	9		494	
Knox	275	191	471	138	254				392	149	219	7		375	
Liverpool	223	432	655	362	212		1	49	629	409	178	105		699	
Madison	117	145	264	119	111			4	235	130	115	8		260	
Middletown	104	255	359	165	110				309	181	74	27		282	
Perry	235	763	1009												
North Ward Precinct				221	28		4	32	416	224	71	42	4	411	
South "				204	143		6	51	499	276	92	88	12	465	
Salem--															
Leontonia Precinct.	350	274	624	212	275			141	636	212	246	163		619	
Franklin Square Free	100	150	250	114	98			14	214	111	61	18		190	
St. Clair	129	123	254	96	115			1	215	90	89	4		183	
Unity	347	273	623	223	222			25	553	211	221	28		521	
Washington	200	301	501	223	157			50	450	246	119	153		523	
Wayne	115	66	183	50	107			2	139	68	103			171	
West	164	259	426	183	106		1		372	163	125	33		322	
Yellow Creek	307	445	751	323	222				549	281	240	3		630	
Totals	4000	5417	9794	4255	3441		12	545	8960	4395	2976	668	16	8277	

COSSHOOTON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Levin H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Adams.....	136	99	235	96	117				213	101	135			238	
Bedford.....	112	129	241	114	104				216	122	94			216	
Bethlehem.....	115	81	196	85	88				163	71	94			165	
Clark.....	115	99	214	103	99				182	96	105			201	
Crawford.....	248	44	292	41	196				237	48	240			288	
Franklin.....	133	84	217	76	111				187	87	104			191	
Jackson.....	204	225	429	192	194				394	180	182	14		356	
Jefferson.....	174	81	255	78	153				241	86	171			257	
Keene.....	74	129	203	124	70				194	129	71			200	
Lafayette.....	140	100	240	87	107				194	86	116			203	
Linton.....	209	189	398	141	184				326	140	198			338	
Mill Creek.....	91	48	139	43	90				186	45	83			188	
Monroe.....	115	88	203	80	104				184	60	104			184	
New Castle.....	144	96	240	70	125				196	92	119		5	217	
Oxford.....	137	26	163	26	117				203	92	107			203	
Perry.....	143	61	204	57	135				188	59	142	4		201	
Pike.....	97	■	190	53	84				188	87	88			175	
Tiverton.....	145	57	202	44	135		3		182	35	110		15	187	
Tuscarawas.....	504	391	895	348	450				819	378	413	22		871	
Virginia.....	97	148	245	121	74				195	114	69	8		188	
Washington.....	69	105	174	95	56				152	100	60			180	
White Eyes.....	112	100	212	86	93				192	115	93			206	
Totals.....	3312	2518	5834	2228	2266	...	3	...	5149	2336	2677	106	20	5344	

CRAWFORD COUNTY.

Townships and Wards.	President—1876.			Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden	R. E. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David E. Page.	Andrew Roy.	Jere N. Robinson.			
Auburn	135	122	258	90	101				191	102	94	15	7	216		
Bacynus	623	375	1009	379	588			15	880	370	532	76	17	1013		
Chatsfield	243	17	260	10	201				211	14	284	1		240		
Cranberry	339	71	412	35	241		4	2	273	49	493	20	17	380		
Dallas	40	47	87	38	35		5		78	45	38	1	4	86		
Holmes	228	135	365	97	173		12		272	115	177			294		
Jackson	461	255	719	132	380		4	58	555	221	354	46	2	685		
Jefferson	165	69	249	45	149		3		197	41	130	12	1	194		
Liberty	213	209	425	150	174		21		361	150	196	2	38	337		
Lykins	173	79	252	67	189		12		198	68	150	4		223		
Polk	280	503	1391	354	731		10	25	1194	435	675	55		1173		
Sandusky	91	35	156	55	78		12		135	54	81			146		
Texas	74	79	155	44	59		16		180	63	57	13	7	140		
Tol	168	105	275	62	129		7		199	79	138	9	4	234		
Vernon	177	53	244	36	154				190	33	158			191		
Whetstone	275	132	410	81	196				278	84	177	3		264		
Totals	4165	2312	6715	1581	3496		88	89	5270	1934	3489	258	113	5796		

CUYAHOGA COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.							Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. E. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.	David R. Page.		Andrew Roy.	Jere N. Robinson.			
Bedford	139	239	379	160	153		9	1	312	147	96	11	59	315		
Brookville	70	157	227	121	61		3		185	131	50	20	10	214		
Brooklyn—																
Village Precinct	78	198	275	196	60	11		1	300	156	57	18	3	236		
South	133	121	257	89	94	1			187	93	67	23		183		
West Cleveland Prec't.	100	133	234	85	59	4		10	161	88	31	51	2	171		
Chagrin Falls	64	330	395	227	68	1	15	12	332	239	54	35	24	353		
Cleveland—																
1st Ward	757	1005	1792							721	416	277	15	1434		
A				145	111	4		13	276							
B				130	160	18		53	361							
C				156	155		1	13	347							
D				164	69	2		15	253							
2d Ward	502	885	1402							293	325	165	10	1163		
A				158	134	2		3	297							
B				203	142	7	2	6	431							
C				187	129	4		4	397							
3d Ward	388	346	732							264	245	71	3	583		
A				163	172	6		20	364							
B				57	78	1		6	140							
4th Ward	640	1217	2062							295	428	310	18	1763		
A				219	146	1	1	10	376							
B				274	51		5	4	337							
C				147	139	3		16	300							
D				112	163	9		53	341							
E				106	142	5		27	284							
5th Ward	1270	724	2015							329	763	323	10	1643		
A				92	170			7	267							
B				65	151	16		14	246							
C				65	241	8		24	370							
D				135	330	8		34	507							
E				60	135	6		4	204							
6th Ward	1123	2041	3216							1575	616	485	37	2805		
A				110	160	116		27	494							
B				197	116	21		18	282							
C				267	99	102	3	4	477							
D				352	170	13	1	35	579							
E				158	79	23	4	21	286							
F				203	61	2		21	286							
G				225	58	1	1	3	291							

CUYAHOGA COUNTY—Continued.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Ludon.	E. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Harnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Cleveland—Cont'd—															
7th Ward	731	714	1459	228	237	59		16	556	481	371	343	8		1802
" A				142	199	23		27	392						
" B				42	104	20		10	176						
8th Ward	916	336	1155	81	295	6		13	375	117	507	215	6		845
" A				55	422	2		4	483						
9th Ward	585	717	1318	200	90	1		2	304	493	355	144	55		1047
" A				214	182	25		28	459						
" B				65	204	5		14	286						
10th Ward	637	910	1560	217	217	9		26	475	575	360	310	21		1253
" A				166	137	7		38	349						
" B				141	175	3		32	352						
11th Ward	1105	906	2029	112	133	17		49	312	469	587	428	16		1568
" A				95	197	23		43	364						
" B				110	136	31		20	293						
" C				90	106	19		46	382						
" D				50	43	22		37	182						
12th Ward	506	674	1208	172	205	85		49	518	271	195	532	11		1009
" A				41	32	68		15	156						
" B				39	49	137		8	233						
13th Ward	464	552	11 31	243	113	91		48	697	406	190	460	3		1011
" A				134	177	44		63	418						
14th Ward	439	479	940	79	52	10		40	184	391	102	452			
" A				138	104	313		24	579						
15th Ward	350	459	829	148	193	3	1	34	381	327	171	225	9		727
" A				137	97	13		29	279						
16th Ward	179	464	667	150	60	59	2	34	301	393	76	127	23		612
" A				124	47		5	2	239						
17th Ward	183	460	647	224	101	14	1	14	353	382	90	55	10		540
" A				114	48	1		1	166						
18th Ward	611	897	1524	124	270	2		113	511	612	422	322	41		1466
" A				123	84	5		54	278						
" B				214	153	1	2	40	423						
Dover	183	194	337	125	140				266	143	146	7	32		329
East Cleveland	140	310	457	139	20		1	21	244	124	51	15	50		249
Glenville Prec 1	54	91	145	73	42			2	118	66	28	16	1		131
Collinwood "				16	40	4		4	154	107	38	5	6		156
Euclid	213	315	529	204	203			12	221	161	150	35	35		381
Independence	211	158	378	92	143		2	20	257	96	28	47	9		240
Mayfield	84	135	220	93	25				176	98	50	8	9		156
Middleburg	315	462	790	311	251	2	6	9	521	228	241	62	71		850
Newburgh	107	123	230	71	71	3		7	165	24	52	22			150
Olmstead	159	219	398	122	123		10		295	146	89	43	18		291
Orange	58	124	182	93	47			4	142	99	30	17	3		141
Parma	191	129	322	92	142	4		1	239	111	118	5			234
Rockport—															
1st Precinct	60	122	183	99	49		1	3	143	83	46	3	13		147
2d "	164	180	347	143	123		1	1	265	118	112	42	18		291
Wesleyton	48	196	242	170	45				216	178	36	11	1		227
Winton	94	121	216	106	84				191	101		6	8		191
Strongsville	45	170	217	133	34		5		172	144	30	14			188
Warrensville	140	171	315	136	108				244	117	68	8	20		234
Totals	14485	18198	33055	11634	10644	1519	83	1367	25395	12849	8111	5743	685		27000

DARKE COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Adams—															
West Precinct	183	185	.....	142	141	.....	.....	.....	284	183	147	2	.....	.....	313
East "	109	97	.....	58	74	.....	2	11	164	62	71	14	.....	.....	147
Allen	139	91	.....	70	120	.....	.....	.....	192	72	122	1	.....	.....	196
Brown	278	121	.....	106	222	.....	13	3	377	87	272	17	.....	.....	379
Butler	278	132	.....	100	264	.....	.....	.....	375	109	220	1	.....	.....	340
Franklin	140	189	.....	136	116	.....	1	9	302	122	123	11	.....	.....	266
Greenville	829	577	.....	427	735	.....	2	20	1350	571	787	48	.....	.....	1412
German	174	217	.....	150	137	.....	4	24	360	210	144	14	.....	.....	371
Harrison	221	200	.....	140	222	.....	2	10	323	127	222	37	.....	.....	293
Jackson—															
Western Precinct	206	160	.....	90	166	.....	.....	7	299	121	189	6	.....	.....	317
Eastern "	103	85	.....	42	93	.....	.....	9	140	63	125	.....	.....	.....	191
Mississippi	165	107	.....	71	124	.....	.....	.....	230	83	120	19	.....	.....	231
Monroe	124	122	.....	94	109	.....	.....	1	208	123	125	.....	.....	.....	256
Neave	157	95	.....	68	141	.....	1	.....	226	82	142	2	.....	.....	224
Patterson	101	142	.....	64	70	.....	.....	9	165	112	101	.....	.....	.....	213
Richland	160	78	.....	52	162	.....	.....	9	245	78	162	3	.....	.....	246
Twin	347	256	.....	195	312	.....	2	12	579	201	325	31	.....	.....	567
Van Buren	164	127	.....	112	127	.....	2	.....	308	119	129	9	.....	.....	271
Wabash	90	120	.....	96	76	.....	.....	2	183	74	75	25	.....	.....	175
Washington	125	200	.....	121	101	.....	2	.....	238	159	122	2	.....	.....	220
Wayne	353	194	.....	156	274	.....	.....	3	527	171	322	12	.....	.....	512
York	110	84	.....	64	102	.....	.....	1	170	62	106	.....	.....	.....	171
Totals	4667	3577	8239	2612	3947	.....	39	211	7233	2860	4202	254	21	.....	7462

DEFIANCE COUNTY.

Townships and Wards.	President—1876.			Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. R. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Adams	220	36	312	22	195	.....	.....	7	231	23	176	10	.....	.....	210
Defiance	751	372	1128	122	541	.....	.....	221	924	279	417	152	.....	.....	1068
Delaware	228	46	293	27	168	.....	.....	24	230	26	146	14	.....	.....	169
Farmer	121	166	301	127	103	.....	.....	10	250	142	103	4	.....	.....	254
Hicksville	207	212	422	151	189	.....	.....	23	427	72	101	4	.....	.....	198
Highland	152	111	262	90	105	.....	.....	.....	195	125	91	23	.....	.....	209
Mark	124	84	208	42	63	.....	.....	2	125	53	92	.....	.....	.....	147
Milford	180	151	332	113	135	.....	.....	2	254	103	127	.....	.....	.....	245
Noble	126	67	203	22	112	.....	.....	2	186	64	102	.....	.....	.....	171
Richland—																
North Precinct	116	42	160	52	103	.....	.....	10	162	43	95	4	.....	.....	143
South "	107	19	126	7	65	.....	.....	2	76	14	70	.....	.....	.....	93
Tiffin	211	102	315	66	157	.....	.....	15	242	65	156	.....	.....	.....	220
Washington	208	60	268	49	123	15	199	49	122	15	194	
Totals	2868	1520	4422	1017	2095	456	3527	1077	2149	225	3517	

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DELAWARE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jerro. N. Robinson.		
Berkshire	130	974	391	191	133	...	13	6	344	234	139	4	16	394	
Berlin	136	173	318	155	126	...	10	...	292	162	117	...	13	292	
Brown	92	143	247	105	92	...	94	...	222	123	90	...	24	240	
Caucood	137	103	242	62	120	...	5	...	183	84	141	...	5	231	
Delaware Township	123	149	277	90	108	...	19	...	218	110	102	...	25	242	
Delaware City—															
First Ward	133	336	469	191	70	...	16	...	283	231	57	6	22	321	
Second "	271	450	721	151	74	...	24	...	249	153	81	6	26	269	
Third "	293	65	358	96	104	...	33	...	234	109	99	16	42	267	
Fourth "				57	137	...	16	...	211	77	150	6	14	248	
Fifth "				112	257	...	11	...	383	156	243	16	7	431	
Genoa	146	94	241	69	109	...	8	...	226	79	112	...	10	291	
Harlem	156	93	249	66	134	...	20	...	290	90	144	...	17	351	
Kingston	37	101	139	90	35	...	1	...	126	105	32	...	4	149	
Liberty	153	160	326	107	122	...	12	9	250	117	170	2	19	308	
Marlboro	52	55	110	45	43	...	1	...	91	55	48	1	2	108	
Orange	161	153	313	111	64	...	10	...	206	132	100	3	22	257	
Oxford	108	178	282	147	93	...	1	4	246	160	103	...	10	277	
Porter	56	145	199	60	34	...	7	1	193	103	47	...	6	170	
Radnor	69	216	285	124	62	...	10	...	257	206	50	...	6	273	
Scioto	242	120	402	94	224	...	39	...	358	122	212	2	43	360	
Thompson	137	73	211	48	122	...	1	...	171	61	108	...	4	173	
Trenton	138	77	219	58	120	...	4	...	182	67	132	...	11	210	
Troy	67	105	204	74	99	...	6	...	179	84	93	...	...	188
Totals	2809	3237	6204	2383	2501	...	291	20	5219	2632	2595	78	352	5880	

ERIE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Pringle.	Andrew Roy.	Jerro N. Robinson.		
Berlin	151	316	501	219	126	..	3	81	436	225	105	62	..	12	424
Florence	127	194	325	149	122	..	11	..	282	156	111	38	..	..	302
Groton	131	99	230	62	105	..	2	..	169	59	96	9	..	..	167
Huron	167	217	402	154	137	..	8	11	312	142	136	76	..	5	339
Kelley's Island	69	99	183	105	61	..	..	4	169	66	59	33	..	..	174
Margaretta	141	274	422	221	123	..	4	..	348	197	131	11	..	2	341
Milan	160	359	516	264	121	..	3	133	521	252	127	130	..	2	547
Oxford	141	146	289	94	106	..	2	5	297	126	103	29	..	..	254
Perkins	172	169	341	141	152	..	1	4	305	122	156	5	..	..	284
Vermillion	245	170	420	125	195	..	1	19	340	102	215	29	..	..	349
Sandusky City—															
First Ward	294	225	523	217	201	..	39	..	462	272	227	30	..	..	529
Second "	259	303	568	245	226	..	1	15	501	225	232	7	..	..	547
Third "	316	247	564	216	241	..	8	..	465	246	246	18	..	..	510
Fourth "	322	193	523	154	254	..	20	..	435	204	224	14	..	..	500
Fifth "	323	67	470	58	226	..	25	..	371	86	306	15	..	..	497
Totals.....	3112	3158	6412	2424	2486	..	23	377	5333	2600	2558	324	11	3702	3702

FAIRFIELD COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David N. Paige.	Andrew Roy.	Jesse N. Robinson.		
Amanda.....	335	179	415	168	228				301	173	241			418	
Berne.....	426	134	560	115	272				505	124	326			446	
Bloom.....	332	149	479	196	283				414	137	320			524	
Clear Creek.....	330	140	470	123	292				422						
Carroll Precinct.....										103	317			421	
Greenfield.....										96	97			193	
Greenfield.....	230	216	447	203	197				401	130	116			216	
Hocking.....	243	174	416	156	213				370	139	251			381	
Liberty.....	497	217	714	185	451		3		629	192	463			659	
Madison.....	196	19	215	73	175				243	82	163			245	
Pleasant.....	308	1-6	512	162	2-8				451	192	300			4-8	
Richland.....	217	141	358	134	199		5		344	147	212			350	
Rush Creek.....	1-7	2-5	394	165	168		13		340	170	1-1			351	
Violet.....	339	100	440	80	323				405	65	321			407	
Walnut.....	226	220	520	184	201		37		461	161	236		7	454	
Lancaster—															
First Ward.....	207	205	413	176	189	1			375	197	199			397	
Second ".....	104	170	276	146	112	5			65	164	112			276	
Third ".....	202	104	308	98	175	6	1		279	101	300		1	303	
Fourth ".....	136	68	203	65	121		1		167	75	116		1	193	
Fifth ".....	97	70	168	72	129				156	75	161			161	
Totals.....	4597	2770	7367	2417	4154	12	60		6652	2357	4305		9	6947	

FAYETTE COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.		
Concord.....	80	108	188	24	61	..	..	..	148	91	25	..	..	165
Greene.....	88	99	187	23	91	..	..	..	113	110	23	..	..	200
Jasper.....	215	235	452	157	163	..	..	..	322	214	222	..	..	439
Jefferson.....	250	247	497	265	232	..	..	..	531	325	235	15	..	576
Madison.....	156	158	318	125	147	..	..	..	272	127	163	..	..	288
Marion.....	124	94	218	71	111	..	..	..	181	79	97	..	..	176
Paint.....	136	274	417	186	143	..	..	3	343	236	181	..	..	444
Perry.....	76	223	300	164	83	..	..	..	250	110	89	..	..	300
Union—															
West Precinct.....	241	205	452	267	241	..	..	2	511	313	262	..	..	524
East ".....	306	418	748	300	322	1	..	1	624	458	361	26	..	621	
Wayne.....	201	165	366	168	146	..	..	..	316	1-3	152	4	..	342
Totals.....	1674	2423	4323	1892	1726	1	..	4	3731	2330	1936	63	..	4296	

* Scattering, 11 votes.

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FRANKLIN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Secretary of State 1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lea H. Reed.	Henry A. Wilson.	John J. Johnson.	John J. Johnson.	John J. Johnson.	John J. Johnson.	John J. Johnson.	John J. Johnson.	John J. Johnson.	
Blendon	163	343	506	215	154	369	37	1	1	431	450	111	40	40	401
Brown	87	111	198	89	87	176	1	1	1	176	198	22	22	22	198
Clinton	227	145	372	227	145	372	1	1	1	372	372	0	0	0	372
Franklin	204	218	422	148	250	398	1	1	1	412	422	10	10	10	422
Hamilton	179	158	337	105	144	249	1	1	1	254	249	5	5	5	249
Jackson	303	134	437	105	144	249	1	1	1	387	387	50	50	50	437
Jefferson	231	71	302	51	152	203	1	1	1	282	282	20	20	20	302
Madison	339	158	497	140	244	384	1	1	1	384	384	113	113	113	497
Groveport Precinct	256	145	401	124	233	357	1	1	1	357	357	144	144	144	401
Winchester	297	111	408	108	219	327	1	1	1	327	327	181	181	181	408
Mason	241	157	398	129	169	298	1	1	1	298	298	100	100	100	398
Middle	180	161	341	111	170	281	1	1	1	247	281	134	134	134	341
Morwich	150	128	278	117	161	278	1	1	1	278	278	0	0	0	278
Perry	144	18	162	104	106	210	1	1	1	210	210	52	52	52	262
Plain	220	187	407	114	174	288	1	1	1	288	288	119	119	119	407
Pleasant	221	173	394	111	181	292	1	1	1	292	292	102	102	102	394
Sharon	105	149	254	111	141	252	1	1	1	252	252	102	102	102	354
Worthington Precinct	95	64	159	56	75	131	1	1	1	131	131	28	28	28	159
Terra	214	221	435	124	181	305	1	1	1	305	305	130	130	130	435
Washington	192	86	278	52	122	174	1	1	1	174	174	104	104	104	278
Colgate	229	425	654	187	164	351	1	1	1	351	351	103	103	103	654
1st Ward	166	542	708	79	107	186	1	1	1	186	186	114	114	114	708
2d Ward	124	417	541	129	24	153	1	1	1	153	153	86	86	86	541
3d Ward	170	151	321	107	76	183	1	1	1	183	183	138	138	138	321
4th Ward	101	214	315	101	214	315	1	1	1	315	315	114	114	114	315
5th Ward	40	222	262	41	260	301	1	1	1	301	301	61	61	61	262
6th Ward	21	246	267	21	246	267	1	1	1	267	267	66	66	66	267
7th Ward	72	122	194	72	122	194	1	1	1	194	194	122	122	122	194
8th Ward	24	214	238	24	214	238	1	1	1	238	238	114	114	114	238
9th Ward	234	169	403	121	184	305	1	1	1	305	305	198	198	198	403
10th Ward	121	184	305	121	184	305	1	1	1	305	305	174	174	174	305
11th Ward	70	26	96	70	26	96	1	1	1	96	96	26	26	26	96
12th Ward	124	122	246	124	122	246	1	1	1	246	246	122	122	122	246
13th Ward	40	246	286	40	246	286	1	1	1	286	286	146	146	146	286
14th Ward	10	104	114	10	104	114	1	1	1	114	114	104	104	104	114
15th Ward	21	26	47	21	26	47	1	1	1	47	47	26	26	26	47
Totals	2227	1017	3244	1017	1017	2034	1	1	1	2034	2034	1017	1017	1017	3244

FULTON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen J. Johnson.	Milton Barnes.		David B. Paige.	Andrew Roy.	Jesse N. Robinson.			
Amber	101	180	281	157	90	..	..	10	206	149	86	28	..	..	261
Chesterfield	81	163	245	97	47	..	..	9	176	109	21	87	..	..	230
Clinton	216	570	821	403	173	..	..	105	685	487	192	113	..	..	805
Dover	43	194	251	87	37	..	..	75	211	145	28	72	..	..	249
Franklin	106	121	227	91	74	..	..	6	162	94	90	19	..	..	196
Fulton	111	234	350	148	82	..	..	11	241	150	32	55	..	..	306
German	238	198	366	42	142	..	..	46	233	90	249	28	..	..	376
Gorham	237	911	474	121	148	..	..	28	299	145	168	43	..	..	357
Pike	41	181	225	110	25	..	..	20	153	141	28	43	..	..	214
Royalton	78	177	260	101	72	..	..	6	13	193	71	34	..	..	235
Swan Creek	111	158	309	106	78	..	..	..	184	131	74	29	..	..	234
York	210	340	558	187	128	..	..	3	42	244	192	39	7	..	483
Totals	1597	3637	4367	1600	1156	..	11	387	3164	2013	1208	562	17	..	3636	

GALLIA COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David B. Paige.	Andrew Roy.	Jesse N. Robinson.		
Addison	192	129	311	197	163				209	108	170			274	
Cheshire	110	301	414	251	98				350	171	73			246	
Cheshire Precinct										143	57	1		201	
Clay	158	153	313	99	119				212	115	129			244	
Gallipolis	52	90	145	90	48				138	163	52			155	
Green	107	198	305	160	94				275	208	111			319	
Greenfield	119	139	259	94	78				171	104	91			195	
Guyan	206	174	380	104	151				256	78	171			251	
Harrison	106	154	260	131	80				221	112	102			214	
Huntington	119	229	345	179	110		11		300	193	126		10	331	
Morgan	148	132	281	119	131				273	128	151	1		277	
Ohio	176	97	272	48	122				177	46	166			193	
Perry	74	186	260	145	87		2		234	102	86			251	
Raccoon	90	222	373	227	9		4		327	261	102			365	
Springfield	151	219	372	193	141		1		337	212	133			347	
Walnut	179	178	357	137	141				278	144	163	1		308	
Gallipolis—															
1st Ward	143	70	223	67	140	4			212	63	169	1		229	
2d "	86	150	236	139	73	2			215	143	105			251	
3d "	66	160	225	146	74				227	179	77			257	
4th "	30	147	177	122	38	1			168	130	36			167	
Totals	2303	3202	5519	2586	1997	7	19		4628	2801	2251	4	10	5184	

SECRETARY OF STATE.

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GAUGA COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Auburn	55	159	217	113	48				164	92	31	19		149	
Bainbridge	54	145	199	108	48				161	103	36			149	
Barton	77	227	305	181	65				250	185	43	12		240	
Chardon	119	333	452	264	95				369	278	71	48		386	
Chester	50	171	191	130	15				148	180	11	3		137	
Claridon	34	188	225	150	21		1	1	176	144	10	8		182	
Hampden	29	174	203	134	23		1		158	133	20	1		156	
Huntsburg	23	187	212	138	24		1		163	140	12	6		168	
Middlefield	45	174	219	127	32				167	109	32	11	16	170	
Montville	53	154	207	180	43		2		166	126	33	3		168	
Musson	45	163	208	105	53		2		161	136	37	9		177	
Newberry	33	209	242	140	30		1	1	172	140	18	27	13	199	
Parkman	72	165	243	128	73		5		206	124		6		178	
Russell	16	159	175	120	26		1	1	141	117	15	3		136	
Thompson	92	192	285	142	78				221	123	48	21		193	
Troy	40	208	247	158	40		1		199	163	29	4		197	
Totals	808	3004	3830	2256	714		6	13	3014	2235	402	190	36	2999	

GREENE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Bath—																
Fairfield Precinct.....	185	181	368	140	100	3	2	..	306	137	121	4	3	..	286	
Oakburn ".....	151	196	278	89	137	2	2	..	219	92	98	15	..	..	205
Beaver Creek.....	271	338	609	20	176	11	2	..	410	244	127	..	..	..	489
Cesar's Creek.....	128	142	271	63	97	..	..	..	190	95	90	..	..	12	202
Cedarville.....	110	434	557	282	94	5	37	..	399	300	91	..	..	12	409
New Jasper.....	67	172	242	120	34	13	..	..	174	136	39	..	..	3	179
Jefferson.....	171	151	325	101	174	2	10	..	287	124	107	..	16	..	338	
Miami—																
Eastern Precinct.....	60	91	153	57	54	13	..	..	125	69	44	6	..	..	119
Western.....	135	328	465	216	105	12	11	..	350	228	104	5	4	..	344	
Ross.....	142	156	299	119	132	..	..	..	255	110	101	..	2	..	214
Silver Creek.....	133	349	487	225	111	..	17	..	355	234	105	..	10	349	349	
Spring Valley.....	169	211	381	158	157	..	11	..	327	162	142	..	..	4	327
Sugar Creek.....	185	222	413	207	177	3	..	..	387	214	177	..	..	..	391
Xenia.....	143	517	666	351	101	19	12	..	483	358	111	..	7	..	479	
Xenia—																
1st Ward.....	67	140	254	135	54	15	11	..	217	139	63	2	3	..	212	
2d.....	67	169	242	117	45	10	9	..	191	149	..	2	7	..	206	
3d.....	105	256	364	174	61	12	8	..	276	207	76	1	3	..	289	
4th.....	28	369	417	222	12	54	5	..	311	316	18	1	..	..	335
5th.....	124	70	257	98	96	46	5	..	178	..	133	1	1	..	184	
Totals.....	2494	4488	7049	3031	2063	316	162	..	5440	3380	1826	37	89	..	5479	

GUERNSEY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Falge.	Andrew Roy.	Jerr. N. Robinson.		
Adams	51	110	161	109	51				160	101	53				155
Cambridge—															
1st Precinct	183	236	420	200	182	1	1		392	207	191				400
2d "	105	402	507	183	111				296	190	101				293
3d "	101	180	281	139	120				261	168	90				274
Center	131	100	231	73	124		2	1	210	71	109				290
Jackson	101	103	204	101	85				187	92	94				190
Jeff. town	91	117	208	102	79				181	112	83				196
Knex	109	63	172	82	101				183	56	106				163
Liberty	110	172	282	163	90				263	167	103				271
Londonderry	89	154	243	140	81				233	172	88				254
Mason	92	154	245	140	80				240	148	90				247
Milwood	162	228	390	196	109				374	188	163				360
Monroe	111	102	213	107	111				214	111	109				220
Oxford	140	181	321	151	183				334	182	141				346
Richland	101	193	294	164	94				258	176	108				294
Spencer	121	227	348	138	112		47		338	202	111			14	337
Valley	119	89	208	87	101				188	80	109				191
Washington	63	84	147	75	64		1		140	52	62				154
Westland	97	137	234	116	63				179	120	59				178
Whellag	123	110	233	83	98				188	91	111				293
Wills	229	137	366	133	209		1		344	139	206			15	348
Totals	2100	3100	5200	2701	2341	1	64	12	5134	2843	3220		118	25	5317

HAMILTON COUNTY.

Townships and Wards.	Governor—1877.					Total vote.
	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	
Cincinnati—						
1st Ward—A	65	163	34			262
" B	103	143	42			288
" C	127	81	11			219
" D	155	78	52			285
" E	73	100	11			184
" F	138	86	4			228
" G	166	130	40			336
" H	88	100				188
2d Ward—A	88	101	28			217
" B	96	98	54			248
" C	160	82	67			309
" D	123	31	54			208
" E	59	28	13			99
" F	6	104	43			153
3d Ward—A	111	107	43	1		262
" B	30	360	93		1	484
" C	16	62	17			95
" D	22	244	46			282
" E	42	148	25			215
" F	158	116	68			342
" G	156	27	102			285
4th Ward—A	73	130	47			250
" B	59	135	52			246
" C	48	150	78			276
" D	26	152	38			216
" E	65	106	54			225
" F	147	130	130			407
" G	102	117	34			253

HAMILTON COUNTY—Continued.

Townships and Wards.	Governor—1877.					Total vote.
	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	
Cincinnati—Continued—						
5th Ward—A	77	88	15			185
" B	101	126	15			244
" C	31	98	32			161
" D	88	121	47			258
" E	89	262	48			402
6th Ward—A	161	255	22			443
" B	35	51				90
" C	84	242	30			359
" D	58	122	47			234
" E	98	77	32			205
" F	76	60	25			164
7th Ward—A	57	65	93			215
" B	110	59	140			316
" C	86	88	103			284
" D	80	143	41			267
" E	57	166	90			316
" F	73	25	50			149
8th Ward—A	77	126	16			213
" B	107	104	57			268
" C	46	184	32			262
" D	63	273	75			412
" E	22	71	51			144
9th Ward—A	85	74	74			240
" B	58	49	36			143
" C	119	151	48			315
" D	102	87	17			205
" E	102	55	1			160
" F	144	109	24			274
10th Ward—A	121	101	101			324
" B	128	81	136			351
" C	105	78	105			290
" D	107	45	124			283
" E	65	50	137			258
" F	64	36	76			178
11th Ward—A	192	108	209			512
" B	113	69	154			346
" C	100	33	78			212
" D	110	56	130			311
" E	53	42	68			166
" F	53	55	94			205
12th Ward—A	103	43	67			219
" B	95	126	61			304
" C	57	69	96		1	224
" D	104	123	191			422
" E	56	50	86			200
13th Ward—A	46	179	157			386
" B	34	134	96			261
" C	74	116	144			336
" D	74	82	60			218
" E	102	69	175			350
" F	57	26	37			121
14th Ward—A	56	77	30			167
" B	109	100	96			304
" C	135	158	100			397
" D	85	94	95			279
" E	83	87	116			290
15th Ward—A	114	116	39			276
" B	130	105	38			277
" C	91	90	47			233
" D	104	110	80			297
" E	105	120	138			370
16th Ward—A	117	79	22	1		219
" B	64	133	22			220
" C	103	129	31	1	1	267
" D	79	166	41			288
" E	64	70	27			164
" F	74	163	78			319

HAMILTON COUNTY—Continued.

Townships and Wards.	Governor—1877.					Total vote.
	William H. West.	Richard M. Bishop.	Levi H. Bond.	Henry A. Thompson.	Stephen Johnson.	
Cincinnati—Continued—						
17th Ward—A	119	191	9			250
" B	97	79	11			190
" C	98	69	10			178
" D	218	218	36			480
" E	163	100	16			289
" F	187	96	22			307
18th Ward—A	96	105	21			227
" B	86	94	■			212
" C	109	122	24			257
" D	74	64	98			180
" E	111	104	31			249
" F	119	107	36			269
" G	69	63	16			149
19th Ward—A	163	169	32			369
" B	131	124	35			314
" C	69	134	46			249
" D	10	112	13			141
" E	97	180	25			293
" F	18	127	46			193
20th Ward—A	143	129	46			329
" B	73	96	60			229
" C	49	74	16			149
" D	122	145	62			339
" E	90	155	49			299
" F	68	126	45			199
21st Ward—A	68	212	197		1	478
" B	35	151	46			233
" C	39	195	66			290
" D	37	121	108			266
" E	74	73	25			136
" F	74	44	95			213
22d Ward—A	80	90	71			244
" B	87	161	65			313
" C	167	126	100			393
" D	16	68	24			113
" E	100	203	116			429
" F	12	31	23			66
23d Ward—A	64	100	37			212
" B	22	125	41			200
" C	63	97	37			217
" D	121	51	36			219
" E	144	69	63			280
" F	80	52	66			198
" G	149	109	100			361
24th Ward—A	85	87	35			217
" B	121	60	23			204
" C	95	69	36			200
" D	129	69	79	1		319
" E	81	83	50			214
25th Ward—A	176	94	34		1	307
" B	81	152	44			278
" C	124	110	41			275
Anderson Township—						
North Precinct	39	127	2			177
Central "	64	97	1			164
South "	54	101	31	2		194
Colerain Township—						
North-east Precinct	161	237	1		1	401
South-west "	106	117	3			229
Columbia Township—						
West Precinct	113	100	3			218
Central "	149	128	60			339
East "	54	■				107
Oakley "	61	55	1			120
Crosby Township—	67	111	1		1	201
Delhi Township—						
Western Precinct	72	43	44			15
Eastern "	90	51	14			15

HAMILTON COUNTY--Continued.

Townships and Wards.	Governor--1877.					Total vote.
	William E. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	
Green Township--						
South-western Precinct.....	70	59	1			130
North-western ".....	79	76	1			156
South-eastern ".....	165	115	9			289
North-eastern ".....	87	71	1			160
Harrison Township.....	156	234	16			396
Miami Township.....	201	234	4			441
Mill Creek Township--						
North-east Precinct.....	113	127	3			243
Winton Place ".....	169	26				195
Clifton ".....	72	53	7			132
Western ".....	32	29				61
Avondale ".....	216	115	17			348
St. Bernard ".....	56	140	26			222
College Hill ".....	87	46	2		16	151
Bond Hill ".....	47	46	7			100
Riverside ".....	58	63	32		1	154
Springfield Township--						
South-east Precinct.....	253	110	21			384
North-east ".....	211	237	2			450
West ".....	92	276				368
Hartwell ".....	115	51	3			169
Spencer Township--						
North Precinct.....	64	45				109
South ".....	4	52				56
Breamore Township--						
East Precinct.....	106	152	3			261
Sharonville Precinct.....	89	225	7			321
Reading Precinct.....	140	325	78			543
Symmes Township--						
North Precinct.....	71	70	1			142
Camp Dennison Precinct.....	65	48	1			114
Whitewater Township.....	49	63				112
North Precinct.....	46	109				155
Totals.....	17,156	20,325	9,078	6	24	47,589

HAMILTON COUNTY—Continued.

Townships and Wards.	Secretary of State—1878.				Total vote.
	David R. Falge.	Milton Barnes.	Andrew Roy.	Jeremiah N. Robinson.	
Cincinnati—					
1st Ward—A.....	298	344	2	.....	474
" " B.....	338	254	1	.....	480
" " C.....	435	405	4	.....	841
" " D.....	167	228	1	.....	437
2d Ward—A.....	527	805	13	.....	1353
" " B.....	138	391	.....	.....	461
3d Ward—A.....	440	691	8	.....	1138
" " B.....	750	197	40	.....	913
4th Ward—A.....	351	117	8	.....	461
" " B.....	459	921	18	.....	698
" " C.....	357	412	10	.....	784
5th Ward—A.....	250	949	2	.....	503
" " B.....	543	347	8	.....	902
6th Ward—A.....	298	513	.....	.....	808
" " B.....	593	385	.....	.....	1005
7th Ward—A.....	315	617	.....	.....	944
" " B.....	309	295	4	.....	899
8th Ward—A.....	338	307	.....	.....	659
" " B.....	589	188	3	.....	754
9th Ward—A.....	393	614	14	.....	1033
" " B.....	207	337	9	.....	556
10th Ward—A.....	283	608	4	.....	1035
" " B.....	247	457	5	.....	704
11th Ward—A.....	236	730	1	.....	1104
" " B.....	147	434	3	.....	610
12th Ward—A.....	254	350	.....	.....	605
" " B.....	268	515	.....	.....	919
13th Ward—A.....	441	909	3	.....	734
" " B.....	261	551	.....	.....	854
14th Ward—A.....	266	510	.....	.....	804
" " B.....	980	283	2	.....	334
15th Ward—A.....	327	508	5	.....	835
" " B.....	238	300	2	.....	809
16th Ward—A.....	368	371	12	.....	756
" " B.....	449	355	16	.....	839
17th Ward—A.....	470	694	11	.....	1184
" " B.....	241	305	2	.....	543
18th Ward—A.....	510	458	19	.....	999
" " B.....	398	387	10	.....	735
19th Ward—A.....	646	312	31	.....	999
" " B.....	350	241	9	.....	597
20th Ward—A.....	396	435	7	.....	834
" " B.....	456	250	23	.....	714
21st Ward—A.....	609	447	23	.....	1134
" " B.....	383	184	2	.....	531
22d Ward—A.....	334	404	7	.....	757
" " B.....	473	429	28	.....	908
23d Ward—A.....	347	240	1	.....	600
" " B.....	260	704	1	.....	1183
24th Ward—A.....	311	487	5	.....	746
" " B.....	275	348	2	.....	635
25th Ward—A.....	360	510	25	.....	919
Anderson Township—					
North Precinct.....	229	44	.....	.....	273
Center ".....	171	116	1	1	293
South ".....	136	76	2	.....	217
Colerain Township—					
North-east Precinct.....	244	163	.....	.....	407
South-west ".....	130	113	3	.....	247
Columbia Township—					
West Precinct.....	94	129	.....	.....	223
Center ".....	205	238	5	.....	450
East ".....	45	70	.....	.....	124
Oakley ".....	63	85	.....	.....	149
Crosby Township.....	118	65	5	.....	200

HAMILTON COUNTY—Continued.

Townships and Wards.	Secretary of State—1878.				Total vote.
	David B. Polge.	Milton Barnes.	Andrew Roy.	Jeremiah N. Robinson.	
Delhi Township—					
West Precinct.....	74	99	7		181
East ".....	71	120			191
Green Township—					
South-west Precinct.....	77	86			164
North-west ".....	83	87			170
South-east ".....	142	185			327
North-east ".....	104	119			223
Harrison Township.....	236	173	9		418
Miami Township.....	280	201			480
Mill Creek Township—					
North-east Precinct.....	158	140			298
Winton Place ".....	31	131			163
Clifton ".....	64	71			135
Western ".....	45	31			77
Avondale ".....	161	223			437
St. Bernard ".....	171	107			277
College Hill ".....	60	106	7		173
Bond Hill ".....	86	69			159
Riverdale ".....	87	102	9		200
Springfield Township—					
Wyoming Precinct.....	109	208	6		323
North-east ".....	223	230	28		474
West ".....	227	108	1		407
Hartwell ".....	60	125			185
Spencer Township—					
North Precinct.....	48	84			133
South ".....	50	4			54
Sycamore Township—					
East Precinct.....	170	143	3		317
Sharonville Precinct.....	151	106	1		258
Reading ".....	321	223	9		613
Symmes Township—					
North Precinct.....	115	103			223
Camp Dennison Precinct.....	43	64			109
Whitewater Township—					
South Precinct.....	106	49	7		161
North ".....	101	60			161
Totals.....	24,438	25,632	503	11	51,195

HANCOCK COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Allen	131	101	232	79	131				211	77	131	3			211	
Amanda	300	118	318	100	178		13		291	133	186	0			325	
Big Lick	146	130	276	115	116				241	108	130	19			257	
Blanchard	135	127	262	160	106		1		267		107	10			273	
Cass	84	101	185	97	71				174	79	79	15			173	
Delaware	141	202	343	167	186				293	175	137	5			317	
Eagle	205	97	302	88	126				274	96	168	11			275	
Findlay—																
West Precinct	310	356	666	323	398		7	4	642	304	281	99			549	
East	228	316	544	263	237		4	4	512	352	232	64			674	
Jackson	166	101	267	78	148				228	53	160	14			257	
Liberty	115	118	233	110	91		2		203	116	104			1	219	
Madison	146	83	229	59	182		4		165	69	119	10			203	
Marion	108	109	217	108	102				208	111	102			5	219	
Orange	124	121	245	111	144				255	82	119	13			214	
Portage	125	107	232	75	110				187	95	119	1			215	
Pleasant	194	173	370	151	157		2		314	133	122	21		2	284	
Union	244	146	390	125	223				346	130	125	20			335	
Van Buren	122	55	177	32	111				142	30	106				136	
Washington	231	178	409	137	191				355							
Postoria Precinct										50	92	23			174	
Washington "										85	119	22			226	
Totals	2815	2811	6334	2366	2854		39	14	5280	2363	2804	362	6		5535	

HARDIN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Blanchard	124	243	440	261	196	...	13	...	472	262	209	...	...	24	...	489
Buck	154	185	341	162	162	...	7	...	332	126	136	...	...	5	...	277
Cass	137	84	222	191	117	...	...	...	269	97	125	...	...	...	...	222
Dudley	122	175	299	152	114	...	3	...	270	159	120	...	...	10	...	289
Goshen	127	100	228	91	123	...	1	...	215	92	113	...	...	10	...	215
Hale	101	288	393	118	118	...	2	...	322	274	119	...	...	4	...	400
Jackson	221	261	482	...	...	...	...	...	...	...	...	...	...	...	...	...
Forest Precinct .....	...	...	...	105	109	...	5	...	219	126	109	...	...	6	...	241
Patterson " .....	...	...	...	81	118	...	...	...	199	83	122	...	...	1	...	205
Liberty	371	263	656	256	372	...	5	...	634	310	327	...	...	11	...	711
Lynn	98	79	176	88	86	...	...	...	174	89	85	...	...	...	...	185
Marion	59	137	196	139	62	...	...	...	207	139	55	...	...	...	...	197
McDonald	129	163	292	154	134	...	...	...	262	165	129	...	...	...	...	299
Pleasant	630	519	1170	504	669	...	5	...	1217	142	211	...	...	5	...	356
Kenton—																
1st Ward .....	...	...	...	...	...	...	...	...	...	114	156	3	...	4	...	279
2d " .....	...	...	...	...	...	...	...	...	...	130	134	...	...	6	...	273
3d " .....	...	...	...	...	...	...	...	...	...	135	113	...	...	5	...	253
4th " .....	...	...	...	...	...	...	...	...	...	69	122	1	...	1	...	207
Round Head	82	145	227	146	59	...	...	...	206	136	68	...	...	...	...	201
Taylor Creek	90	137	220	140	76	...	...	...	217	146	87	...	...	...	...	233
Washington	174	87	265	90	184	...	...	...	260	101	165	...	...	3	...	290
Totals	2702	2830	5563	2794	2724	...	35	...	5515	2908	2766	6	...	24	...	5804

HARRISON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Archer	122	45	167	50	107				157	66	166			166	
Athens															
First Precinct	84	26	110	23	86			3	115	18	83	13		115	
Second	40	105	145	53	57				153	25	28	3	1	151	
Cadiz	223	440	678	413	230			2	654	404	226	15		646	
Franklin	24	122	146	156	78	1	12		251	127	63	24		220	
Frederick	116	151	267	128	103				233	113	96	12		221	
German	216	110	326	128	120		4		260	87	140	1		228	
Grove	192	140	332	138	175				315	141	170			317	
Marion	130	149	279	132	117				249	117	104	7		228	
Morfield	143	98	241	87	143		6		237	77	144	3	4	228	
North	115	206	321	156	117	1		3	268	142	104	6		256	
Nottingham	63	145	208	125	80		1		196	121	52			183	
Rowley	181	101	282	88	172				261	92	153			250	
Short Creek	78	320	398	331	70				402	313	66	7		365	
Stock	107	86	194	23	91				175	81	91			172	
Washington	114	153	267	140	106				247	120	86			206	
Totals	2020	2544	4564	2239	1912	2	23	7	4163	2129	1738	36	11	3976	

HENRY COUNTY

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Bartow	136	102	238	52	108				161	20	96	51		227
Danabocus	137	147	285	102	114				219	22	23	25		211
Flat Rock	122	126	248	77	124				203	23	12	15		225
Freedom	125	43	168	20	127				152	24	125	3		169
Harrison	128	160	288	115	123				238	22	104	61		217
Liberty—														
East Precinct	107	101	208	68	102		1		172	36	97	26		199
West	167	73	240	49	123				175	40	145	17		202
Marion	125	58	183	25	28				122	19	110	11		139
Monroe	140	41	181	24	28				112	2	28	33		143
Spokane	557	335	901	219	464		1		719	171	427	167		769
Pleasant	232	55	287	41	149				193					
New Bavaria Precinct										14	130			144
Holgate										23	60	4		86
Richfield	52	194	246	35	32				90	31	49	2		82
Edgewater	100	66	166	28	64		10		102	20	71	49		140
Washington	150	106	256	56	116		10	10	136	20	116	25		211
Totals	2445	1527	3972	967	1643		10	19	2533	767	1263	367		3146

HIGHLAND COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.		
Brush Creek—															
North Precinct	59	69	128	63	55					119	74	68			142
South "	51	112	163	106	74					173	121	84			297
Clay	136	155	291	176	97					227	140	147			326
Concord	159	133	292	111	135					246	114	148			298
Dodge	270	145	415	117	264		0			380	125	273		0	406
Eastfield	184	409	597	349	175		9			527	320	176			572
Hammer	201	49	250	59	176					215	44	128			233
Jackson	145	74	220	59	136		1			197	60	130		1	191
Liberty—															
North Precinct	246	290	537	274	224	1				502	306	249			561
South "	262	382	640	371	244	4	1			622	367	241			633
Madison	302	464	766	429	299					722	474	245			784
Marshall	106	66	172	62	111					174	67	101			168
New Market	162	92	254	89	160					252	96	183			289
Palm—															
North Precinct	101	132	233	142	88					230	138	118			256
South "	126	125	251	172	111					285	166	129			297
Penn	149	193	334	189	132					321	180	148			328
Salem	163	87	250	64	155					319	62	179			242
Union	196	120	316	167	181		2	2		382	23	144			256
Washington	134	65	200	59	141					191	57	136			193
White Oak	145	111	256	86	118					205	111	136			246
Totals	3323	3341	6668	3031	3056		23	2		6132	3191	3338		7	6556

HOCKING COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen J. Collins.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.		
Benton	211	104	320	88	186	..	..	..	..	271	91	147	98	..	289
Falls	501	391	892	354	444	..	5	2	..	815	..	..	..	..	738
Falls Precinct .....	..	..	..	..	..	..	..	..	..	..	331	252	46	..	316
Grove	176	176	352	144	131	..	..	..	..	282	103	105	5	..	250
Good Hope	157	59	216	56	128	..	..	..	..	178	54	121	..	..	190
Lanier	191	78	269	72	164	..	..	..	..	235	61	131	42	..	238
Marion	206	72	278	50	172	..	..	..	..	223	42	154	9	..	210
Perry	254	125	379	67	153	..	2	..	..	269	28	121	7	..	281
Salt Creek	126	64	192	42	149	..	..	..	..	191	52	150	1	..	210
Start	113	177	290	115	93	..	..	..	..	201	153	74	14	..	247
Ward	117	26	143	23	96	..	..	1	..	144	68	118	61	..	267
Washington	153	130	283	108	198	..	..	..	..	235	112	139	10	..	267
Totals	2259	1475	3734	1165	1276	..	13	3	3	364	1335	1290	272	..	2491

HOLMES COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Berlin	100	81	211	57	123				182	53	104				137
German	229	23	253	14	198				221	16	138				154
Harby	515	195	717	183	495				665	173	423	14			618
Kilbuck	226	76	302	65	229				228	53	198				253
Knox	167	59	227	49	132				181	42	123				170
Mechanic	191	73	274	69	178				213	57	142				190
Minneton	149	93	242	63	130				212	71	122				193
Paint	221	53	267	40	191				231	31	193				266
Prairie	217	127	367	102	210			6	326	99	187				287
Richland	266	69	335	51	206				258	51	192				243
Ripley	162	155	317	112	161				273	104	143				249
Salt Creek	214	93	307	76	210				267	63	172				255
Walnut Creek	220	116	336	10	165				175	6	132				144
Washington	181	118	299	62	130				238	65	117				185
Totals	3171	1241	4423	1000	2780		16		3807	904	2404	17	2		3330

HURON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Bronson	90	173	263	131	85	..	2	3	225	146	35	81	1	263		
Bellvue Precinct	184	142	326	111	137	..	1	1	253	137	62	83	..	280		
Clarkfield	51	221	272	149	54	..	12	1	217	138	29	107	15	290		
Fairfield	80	284	364	210	66	..	8	3	303	914	40	20	1	315		
Fitchville	34	180	214	134	36	..	5	5	176	131	26	22	3	196		
Greenfield	92	142	234	112	81	..	1	4	195	117	26	77	1	224		
Greenwich	68	203	271	135	54	..	25	..	245	163	58	57	15	297		
Hartland	42	202	244	145	38	..	1	2	194	141	24	67	4	214		
Lyons	134	119	253	94	97	..	..	..	191	90	44	80	..	214
New London	101	250	351	271	103	..	17	1	394	250	24	77	8	399		
New Haven	213	156	369	85	134	..	1	15	215	105	131	26	..	275		
Norwalk	244	910	1154	227	513	..	27	150	1144	678	205	623	22	1333		
Norwich	130	153	283	115	111	..	6	..	234	122	68	15	..	232		
Pera	176	93	269	85	140	..	1	3	211	81	122	27	1	235		
Plymouth Precinct	33	53	86	62	45	..	..	..	107	56	40	7	1	104
Richmond	97	122	219	89	68	..	..	7	157	65	60	22	..	168
Ridgefield	226	270	496	221	254	..	2	11	486	277	167	68	2	477		
Ripley	67	204	271	153	48	..	2	..	212	163	28	16	4	213		
Sherman	216	31	247	30	147	..	1	..	179	27	128	48	..	204		
Townsend	69	222	291	158	78	..	4	22	262	158	48	103	24	236		
Wakarusa	126	210	336	165	110	..	16	2	305	122	49	134	20	344		
Totals	3014	4304	7398	3274	2454	...	138	239	6127	3566	1514	1914	136	6649		

JACKSON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Bloomfield	131	194	.....	161	115	.....	3	.....	286	262	126	.....	4	.....	338
Franklin	133	197	.....	150	118	.....	.....	.....	263	180	111	.....	.....	.....	295
Hamilton	48	104	.....	74	42	.....	.....	.....	116	86	45	.....	.....	.....	133
Jackson	177	160	.....	121	160	.....	.....	.....	282	153	178	.....	.....	.....	331
Jefferson	101	377	.....	288	114	.....	.....	.....	411	331	110	.....	.....	.....	441
Lick—																
1st Precinct	202	246	.....	212	126	.....	1	.....	416	238	214	4	.....	.....	436
2d "	214	236	.....	205	245	.....	3	.....	438	205	247	16	.....	.....	471
Liberty	212	151	.....	130	182	.....	.....	.....	317	140	203	1	.....	.....	344
Madison	95	354	.....	236	84	.....	.....	4	326	309	98	10	.....	.....	416
Milton	227	226	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1st Precinct.	.....	.....	.....	147	205	.....	16	.....	370	159	186	.....	21	.....	369
2d "	.....	.....	.....	81	109	.....	4	.....	194	100	151	8	.....	.....	273
Scioto	204	97	.....	60	168	.....	.....	.....	253	76	200	19	.....	.....	295
Washington	140	118	.....	116	113	.....	3	.....	235	111	130	6	.....	.....	268
Totals.....	1934	2522	4484	2003	1845	2	30	4	3931	2294	2011	66	34	.....	4607

JEFFERSON COUNTY.

Townships and Wards.	President—1876		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Brush Creek	49	86	135	74	66				140	76	52			134		
Cross Creek	122	124	246	112	114			1	237	99	97			204		
Irondale Precinct	14	53	67	40	13			3	57	35	7			44		
Island Creek	144	145	289	102	102			2	219	118	78			201		
Knox	120	123	243	93	103			2	200	106	68			197		
La Grange Precinct	123	66	189	56	52			13	125	40	55			112		
Mount Pleasant	69	265	334	213	63		4	13	313	245	74	14		350		
Mingo Precinct	68	73	141	32	46			63	141	19	27	49		96		
Richmond Precinct	99	135	235	114	69				203	117	93		1	213		
Ross	61	108	169	62	55			1	141	90	51	3		145		
Salom	119	65	184	67	120			2	187	58	106	9		167		
Saline	65	116	181	69	60			13	142	52	54	5		140		
Shanghi Precinct	26	72	98	63	17				83	57	14	5		76		
Sloan & Stanton Precinct	70	84	154	76	92			1	152	92	107	5		210		
Smithfield	90	223	314	175	73		17	1	268	194	73	1	15	263		
Springfield	92	112	205	88	82				168	63	83	1		167		
Steubenville—																
1st Ward	153	223	392	183	123			41	346	191	107	50		347		
2d "	214	411	623	311	163			61	534	304	109	105		525		
3d "	213	315	526	251	175			11	439	240	138	31		410		
4th "	205	206	411	187	176			1	384	168	145	28		363		
5th "	137	122	259	100	120			5	255	93	112	33		236		
6th "	97	123	220	50	67			92	202	99	36	140		218		
Steubenville Township	42	72	74	20	30			3	53	18	19	10		49		
Unionport Precinct	35	75	101	67	12			1	86	69	22			91		
Warren	214	159	373	113	152			5	379	194	127	21		272		
Wayne	120	124	244	154	116			3	273	108	116	1	1	236		
Wells	111	64	175	49	96				145	54	60	1		135		
Winteraville Precinct	50	173	223	146	41			18	191	150	34	2		167		
York	42	105	147	89	45			1	136	100	43			143		
Totals	2623	4067	7048	3178	2484			65	324	6038	3254	2156	325	49	8005	

KNOX COUNTY

Townships and Wards.	President—1878.			Governor—1877.							Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.	David R. Paige.		Andrew Roy.	Jerre N. Robinson.				
Berlin	113	111	227	29	101	6	3		200	104	107	5	3	219			
Brown	173	53	226	66	137		14		207	72	147	2	6	227			
Butler	97	58	155	46	92		6		144	36	104	24	2	166			
Clay	181	111	240	110	113	1	14		238	80	114	14	12	240			
Clinton	149	107	261	92	138	1	3		235	70	130	41	6	247			
College	78	106	182	97	67				166	103	72	4		179			
Harrison	147	23	170	21	140				170	20	143	2	2	169			
Hilliard	144	137	281	114	126	1		12	255	111	129	24	7	275			
Howard	122	111	233	102	117	1	6		226	110	128	2	1	240			
Jackman	139	47	190	46	126		7		170	72	140	21	4	203			
Jefferson	108	115	223	90	91		4		166	79	106	3	14	203			
Liberty	145	95	240	79	144	1	6	1	224	61	132	36	9	233			
Middlebury	73	159	234	103	67		6		200	112	67	24	5	208			
Milford	110	101	215	105	98	1	3		210	91	102	10	5	209			
Miller	87	115	203	103	79		4		186	96	72	13	2	190			
Monroe	140	98	247	82	149		3		235	77	145	11	2	235			
Morgan	91	68	159	63	80				157	71	87	1		160			
Morris	107	112	229	84	86		20		197	79	67	13	33	214			
Pike	224	81	321	53	203		24		226	49	166	10	23	279			
Pleasant	111	60	231	86	127				214	69	116	15	1	201			
Union	213	126	400	155	183		16		355	156	204	25	18	404			
Wayne	167	245	414	221	156		6	2	367	213	163	27	6	413			
Mt. Vernon—																	
1st Ward	87	137	231	115	110	6	6	2	241	124	102	21	4	252			
2d "	77	60	158	60	60	17	1	2	160	53	73	51	3	180			
3d "	62	140	204	118	89	9	9	2	204	118	55	42	5	220			
4th "	54	153	212	98	63	21	14	2	196	102	48	53	8	213			
5th "	131	274	413	200	111	52	12	3	379	178	99	107	8	293			
Totals	3301	3151	6544	2528	3063	117	100	26	6031	2497	3072	601	159	6376			

LAKE COUNTY.

Townships and Wards.	President— 1878.		Total vote.	Governor—1877						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R B Hayes		William H West.	Richard M. Bishop.	Lewis H. Bond	Henry A Thompson	Stephen Johnson.	Milton. Barnes		David R. Paige	Andrew Roy.	Jerre N. Robinson.			
Concord	34	150	184	108	80	2	14	154	107	26	41		175			
Kirtland	71	181	253	153	66	3		225	149	50	39		234			
Leroy	58	145	203	119	60	1		174	118	45	13		176			
Madison	163	633	796	466	144	9		610	425	149	2		639			
Mentor	102	352	459	248	67	5		320	256	65	64		379			
Palmerville	435	778	1239	578	247	3	25	953	540	433	140		1112			
Perry	78	273	359	218	52	19		236	49	23	3		289			
Willoughby	202	410	620	278	140	3	1	429	227	136	41	2	416			
Totals	1141	2935	4143	2159	906	26	58	3156	2172	958	356	2	3511			

LAWRENCE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Levia H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jersey N. Robinson.	
Aid	80	222	282	143	55			4	207	162	48	11	1	225
Decatur	116	120	236	52	150			28	222	98	165	25	1	284
Elizabeth	399	294	693	98	250		1	107	345	151	282	107	2	620
Fayette	174	273	447	194	100			6	290	223	141	1		373
Hamilton	100	127	227	83	72			28	201	101	68	25	2	207
Lawrence	71	219	290	128	69		3	5	222	177	74	8	1	262
Mason	204	166	374	124	172			3	360	127	162	10		305
Perry	128	255	383	129	140			37	266	182	132	12	1	374
Rome	275	202	483	144	204		1	3	354	165	277	13	2	370
Symmes	81	127	208	91	81			8	140	110	59	1		200
Union	99	344	443	167	280			84	291	242	54	25	4	324
Upper	215	247	462	109	165			10	376	274	174	3		450
Washington	119	122	241	80	25		2	5	172	122	84	2		199
Windot	165	239	404	170	128				307	126	106	6	1	300
Ironston —														
1st Ward	128	198	326	168	123			9	300	200	108	7		316
2d "	169	186	355	116	145			8	290	151	111	2		297
3d "	105	224	329	191	102		4	5	305	219	70	2		304
4th "	95	213	308	179	75	1	2	7	261	192	76	2	2	273
5th "	164	198	362	144	168			28	334	171	144	5		321
Totals	2949	3075	6025	2650	2417	1	19	463	5571	3222	2312	322	32	6040

LICKING COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Levia H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jersey N. Robinson.	
Bennington	126	74	207	58	116			6	179	35	110	22	4	194
Bowling Green	164	60	224	64	152			3	219	73	152	2		233
Burlington	134	115	252	23	125		11		900	95	112	3	1	211
Eden	126	32	158	27	115				144	12	129	2	4	154
Etina	119	85	204	35	149		5		210	64	104			225
Fallsburgh	128	91	219	60	108				178	77	102	1		182
Franklin	165	80	245	21	152		4	1	128	21	150	11		182
Granville	150	354	505	226	187		1	6	489	331	141	29		501
Hanover	172	124	299	96	135		2	14	248	88	142	27		257
Hartford	148	138	287	94	144				228	109	135	5		253
Harrison	131	129	262	163	101				266	176	121		2	300
Hopewell	173	51	224	45	130		2		207	34	142	22		196
Jersey	140	148	287	112	124		2	2	259	130	142	2		283
Liberty	103	106	209	80	87		4	4	171	74	88	17		180
Lickburg	254	40	293	45	214		1		261	42	206	15	4	267
Lima	219	225	444	121	200		1	15	390	196	199	4	1	400
Madien	178	74	252	63	149			2	214	63	117	13		193
Mary Ann	141	53	196	39	124		3		171	52	123			176
McKean	153	87	240	77	124		1		212	60	103	30		192
Monroe	122	102	224	91	126				230	89	124	22		205
Newark	156	108	265	50	149		3	7	232	78	136	14	1	220
Newark —														
First Ward	209	293	502	192	200		5	21	492	209	206	100	2	524
Second "	292	292	584	70	281				489	27	291	132		515
Third "	334	200	534	92	241		2	192	470	64	257	144	1	490
Fourth "	267	293	563	214	207	1	5	98	583	216	215	108	3	542
Newton	226	116	347	81	210		18	3	312	81	125	5	14	287
Perry	114	103	217	64	118				206	83	117	8		204
St. Albans	125	163	291	142	125		1		268	153	125	2	4	283
Union	316	136	452	110	203				374	114	273	12		409
Washington	127	202	329	147	140		23		310	158	140	19	22	338
Totals	5473	3962	9435	2962	4719	1	100	490	8335	3061	4650	207	63	8615

LOGAN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.							Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.	David R. Paige.		Andrew Roy.	Jere N. Robinson.				
Bloomfield	115	61	777	53	59		1	4	138	41	61			1		198	
Bokes Creek	7	248	335	203	80		5		294	209	78			1		297	
Harrison	104	112	217	83	93				123	98	89					186	
Jefferson	166	194	309	189	181		5		403	181	174			5		361	
Lake	387	538	947	463	385		25		869								
North Precinct										275	159			20		454	
South Precinct										229	245		1	12		476	
Liberty	125	242	377	216	117		1		336	167	115			3		288	
McArthur	205	195	319	153	92		19	1	266	167	94			15		293	
Mid—																	
DeGraff Precinct	108	167	270	128	85		3	4	233	140	99	7	9			246	
Quincy	27	119	210	116	78		6	2	200	102	53	16	4			179	
Monroe	102	192	294	149	60				245	156	60	2	3			221	
Perry	56	162	240	154	54		2	1	211	168	54		2			224	
Pleasant	148	107	255	67	129				200	70	140	7				219	
Richland	116	200	328	170	168		6		268	160	104	1	6			276	
Rush Creek	169	253	458	241	167				431	251	162					433	
Stokes	161	76	220	54	122		4		167	62	124					187	
Union	57	111	170	69	39		6		115	69	36			4		109	
Washington	96	29	196	77	78				155	71	66	1		4		164	
Zane	67	143	217	136	64		7		209	125	43			7		178	
Totals	2296	3250	5022	2717	2045		98	14	4968	2761	1969	61	99			4914	

LORAIN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Amherst	329	266	621	155	225	...	...	40	423	161	234	66	...	...	468
Aven	266	169	449	141	170	...	...	1	221	153	165	...	...	...	339
Black River	105	224	329	158	86	...	...	1	251	201	25	110	...	...	348
Brighton	127	198	325	119	85	...	...	...	137	99	24	3	10	...	136
Brownhelm	127	165	305	165	98	...	...	4	262	124	93	35	...	...	256
Camden	123	153	277	125	79	...	...	1	207	145	67	9	...	...	221
Carlsdo	120	33	318	97	143	...	...	...	242	102	122	27	1	...	222
Columbia	54	174	228	141	58	...	...	1	194	146	53	5	...	...	198
Easton	21	205	227	128	58	...	...	...	125	151	38	5	...	...	206
Elyria	341	765	1131	582	279	...	7	2	755	729	224	73	3	...	1029	
Grafton	115	171	286	167	65	...	...	1	175	140	63	7	...	...	221
Henrietta	151	217	378	113	68	...	...	...	164	112	68	3	1	...	165
Huntington	151	203	354	129	69	...	...	...	199	141	58	3	...	...	233
LaGrange	163	199	329	156	129	...	...	6	263	124	126	10	...	...	259
Pensfeld	29	167	205	135	66	...	...	...	160	130	69	7	3	...	199
Pittsfield	72	165	237	151	75	...	...	...	227	132	74	7	1	...	262
Ridgeville	157	194	351	138	125	...	...	...	256	162	115	4	...	...	322
Rochester	56	143	201	137	55	...	...	...	192	132	55	3	...	...	190
Roma	167	291	454	214	149	...	27	43	705	709	129	69	31	...	941	
Sheffield	99	120	220	93	31	...	...	...	129	92	67	1	...	...	186
Wallington	134	417	569	355	134	...	1	5	495	367	109	23	45	...	581	
Totals	2720	3167	7963	2866	2162	...	37	104	6223	4206	2016	45	99	...	7087	

LUCAS COUNTY.

Townships and Wards.	President—1876		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Levi H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jeru N. Robinson.	
Toledo—														
First Ward	313	682	1097	68	29			146	244	93	32	127		254
A				95	61			303	359	130	75	126	1	385
B				81	63			126	271	96	69	122		288
Second Ward	378	511	939											
A				91	70			77	242	129	86	100	1	315
B				51	89			156	289	84	112	123		330
C				82	47			117	249	20	57	122		266
Third Ward	436	801	1264											
A				163	130			65	378	209	125	77		429
B				142	118			77	340	198	112	87		404
C				104	77			61	245	162	56	63		263
Fourth Ward	519	416	953											
A				78	147			136	363	125	208	98		434
B				21	34			202	257	47	69	141	1	252
C				22	106			80	210	34	154	69	1	257
Fifth Ward	681	677	1599											
A				89	163			241	488	97	199	203	1	501
B				60	189			283	532	62	280	238		559
C				21	45			273	341	39	77	259		376
Sixth Ward	306	333	640											
A				58	122			167	347	77	157	135		368
B				39	70			112	221	51	76	97		223
Seventh Ward	466	616	1131											
A				34	69			175	281	57	109	113		279
B				122	136			248	505	102	164	196	3	574
C				116	55			59	230	176	40	50		268
Eighth Ward	533	479	1063											
A				69	165			137	376	91	222	122		436
B				9	27			143	190	14	99	164		260
C				69	142			150	362	66	115	123		274
South Toledo—														
First Ward	75	129	207	56	75			43	175	64	65	37		168
Second Ward	64	64	128	27	63			33	123	30	57	30		119
Third Ward	35	16	57	8	40			13	61	12	26	17		55
Adams	66	146	235	61	72			46	180	61	80	74		215
Monclova	89	141	232	111	78			6	195	78	55	57		190
Oregon	123	216	341	100	68			68	254	115	61	153		350
Providence	129	132	261	71	87			28	187	42	72	68		189
Richfield	78	138	216	100	73			9	188	91	72	28		191
Spencer	50	85	137	24	40			29	105	19	34	64		117
Springfield	64	100	169	66	63			42	173	42	39	59		146
Swanton	88	83	124	42	25			1	86	41	15	34		90
Sylvania	93	239	316	120	64			59	243	112	72	43		223
Washington	148	334	492											
First Precinct				79	40		7	143	267	146	34		9	310
Second "				30	17			25	70	39	21	18		78
Waterville	109	70	179	45	89			26	160	44	73	47		164
Waynesfield	88	38	64	16	22			11	49	17	25	12		55
Whitehouse	115	25	203	32	77			30	130	34	64	41		145
Totals	5155	6324	11978	2671	3155	7	4076	2637	3294	3321	3993	11	10860	

SECRETARY OF STATE.

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MADISON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.		
Canaan.....	67	193	.....	111	77	.....	1	.....	189	101	20	19	.....	4	197
Darby.....	199	138	.....	125	113	.....	3	.....	245	140	111	1	.....	5	260
Deer Creek.....	113	83	.....	76	115	.....	.....	.....	191	76	131	2	.....	3	219
Fairfield.....	199	177	.....	170	139	.....	.....	.....	304	183	139	2	.....	5	311
Jefferson.....	238	258	.....	268	236	.....	4	.....	506	249	217	.....	.....	34	466
Monroe.....	59	89	.....	71	63	.....	.....	.....	134	69	43	.....	.....	3	115
Oak Run.....	69	43	.....	44	77	.....	.....	.....	129	40	65	.....	.....	.....	193
Paint.....	129	179	.....	168	145	.....	4	.....	316	154	139	1	.....	9	304
Pike.....	40	79	.....	68	40	.....	.....	.....	108	68	43	.....	.....	1	119
Pleasant.....	157	190	.....	184	153	.....	.....	.....	337	153	137	.....	.....	3	393
Range.....	266	196	.....	131	278	.....	.....	.....	408	116	278	.....	.....	.....	396
Stokes.....	165	89	.....	69	154	.....	5	.....	250	98	155	1	.....	10	364
Summerford.....	104	134	.....	136	84	.....	.....	.....	223	136	94	.....	.....	13	246
Union.....	457	491	.....	525	461	.....	6	.....	991	539	465	.....	.....	18	1046
Totals.....	2145	2191	4361	2165	2127	..	25	...	4324	2093	2151	26	108	108	4365

MAHONING COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Austintown	223	209	454	185	206		5	40	436	177	123	101		406	
Beaver	277	170	470	153	237			35	417	177	234	31		448	
Berlin	90	130	224	19	92			5	210	106	86	19		211	
Boardman	92	114	212	69	69			4	178	102	81	10		194	
Canfield	307	167	378	150	181			2	334	101	190	20		363	
Cottleville	79	144	250	95	78			61	234	115	73	56		245	
Ellsworth	94	90	188	66	62				164	92	61			175	
Goshen	71	209	346	224	45		12	3	304	239	62	10		311	
Green	221	209	450	185	194			47	427	185	177	48		410	
Jackson	145	118	263	113	140			1	254	115	139	11		256	
Milton	129	56	186	54	121			2	177	60	110			170	
Poland—															
1st Precinct	60	115	257	143	56			45	247	154	35	37		228	
2d "	66	162	254	122	54			30	213	151	56	23		230	
Smith	94	287	406	162	63		16	46	307	222	40	72		242	
Springfield	409	148	560	115	319			1	25	421	132	351	7	492	
Youngstown	323	339	785	200	199				224	620	309	209	242	516	
Youngstown City—															
1st Ward	297	377	740	255	160			239	649	372	157	146		696	
2d "	365	241	667	169	206			223	596	242	126	177		610	
3d "	225	208	462	107	110			165	324	170	104	109		381	
4th "	101	150	270	119	76			43	239	148	61	35		246	
5th "	116	122	254	93	82			46	221	134	79	30		245	
Totals.....	3691	3921	8000	2947	2820	--	34	1339	7163	3562	2684	1184	--	7223	

MARION COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Fudge.	Andrew Roy.	Jere N. Robinson.	
Big Island	109	154	264	98	100	..	..	..	201	119	101	..	1	222
Bowling Green	208	50	258	36	160	..	52	..	208	43	157	..	3	203
Claridon—														
North Precinct	156	107	264	90	118	4	5	..	210	86	131	15	10	242
South "	71	79	153	70	70	..	1	..	142	79	61	..	1	143
Grand	47	65	113	53	42	..	..	..	95	59	31	..	..	90
Grand Prairie	50	49	99	37	42	..	..	..	85	43	42	1	..	98
Green Camp	155	129	284	109	141	..	..	..	252	129	125	..	..	254
Marion	800	524	1324	454	546	19	20	..	1052	502	554	1	17	1060
Montgomery—														
East Precinct	96	79	176	72	70	..	5	2	150	82	77	..	5	164
West "	115	114	234	108	102	..	..	..	216	127	106	..	6	241
Pleasant	131	109	240	96	110	..	..	..	206	105	132	..	1	234
Prospect	222	154	376	108	195	..	..	..	303	146	159	..	1	337
Richland	214	43	257	30	192	..	..	..	222	39	185	..	..	224
Salt Rock	44	77	121	55	26	..	4	..	85	70	35	..	1	106
Scott	106	29	135	12	26	..	..	..	96	22	35	43	..	101
Tully	117	79	196	52	98	..	..	..	157	60	101	1	..	165
Waldo	162	77	239	47	173	..	1	..	182	59	121	..	..	180
Totals	2603	1918	4521	1534	2252	21	49	2	3882	1770	2196	61	46	4028

MEDINA COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Fudge.	Andrew Roy.	Jere N. Robinson.	
Brunswick	66	129	255	163	70	..	1	..	235	156	50	1	9	225
Chatham	66	122	255	119	61	..	15	..	217	161	55	..	8	223
Grainger	52	200	252	171	41	..	..	..	212	166	43	..	..	210
Grofford	147	152	300	116	113	..	..	..	229	127	106	..	..	234
Harrieville	150	196	351	179	147	..	..	..	336	153	141	..	2	297
Hinckley	39	230	269	122	45	..	..	..	223	124	36	..	3	227
Homer	155	74	228	56	144	..	..	..	201	55	132	..	..	195
Lafayette	112	186	298	100	103	..	2	..	207	105	92	..	1	203
Litchfield	86	156	243	126	77	..	..	..	203	135	70	..	..	206
Liverpool	233	84	317	50	160	..	3	..	219	65	127	28	2	215
Medina	84	142	207	127	62	..	..	..	180	129	55	1	4	189
Medina Village	57	257	314	234	66	..	2	..	304	962	73	6	5	346
Montville	96	111	209	106	87	..	2	..	197	92	87	..	..	181
Sharon	174	127	301	105	105	..	..	..	271	105	146	..	5	222
Spencer	130	110	245	92	118	..	2	..	215	101	124	..	2	228
Seville Village	93	98	179	58	87	..	..	..	145	65	84	..	1	151
Wadsworth	257	334	602	234	204	..	33	..	471	240	172	34	2	459
Westfield	134	122	261	101	118	..	1	..	221	96	110	..	3	211
York	61	175	263	143	69	..	4	..	217	152	67	1	..	226
Totals	2192	3119	5340	2548	1933	..	32	36	4569	2609	1781	71	49	4530

MEIGS COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R B Hayes.		William H West.	Richard M Bishop.	Lewis H. Bond.	Henry A Thompson.	Stephen Johnson.	Milton Barnes.		David R. Page.	Andrew Roy.	Jere N. Robinson.		
Baileford	206	170	377	107	172	1	5	...	224	151	151	26	7	...	332
Chesler	140	224	364	151	136	3	...	...	290	207	135	4	3	...	350
Columbia	115	125	240	94	119	...	4	...	213	114	126	4	4	...	250
Harrisonville	87	98	185	71	90	...	...	...	169	82	74	16	5	...	187
Lohman	162	228	390	153	90	17	2	...	260	185	96	68	...	...	350
Letart	157	137	295	81	90	1	...	...	172	117	128	2	2	...	249
Middleport Precinct	79	117	197	42	17	44	...	...	104	63	32	21	...	...	116
Middleport—															
1st Ward	57	114	171	84	38	27	...	...	149	105	44	16	...	...	185
2d "	40	152	192	120	31	11	2	...	164	144	22	3	2	...	177
3d "	43	173	216	118	43	14	...	...	175	110	32	3	2	...	167
4th "	31	68	99	57	16	14	1	...	89	62	13	6	...	...	92
5th "	13	40	53	36	9	5	...	...	52	41	14	...	...	...	58
Minersville Precinct				106	72	26	1	...	199	146	68	...	...	...	235
Oliver	161	212	374	123	102	...	4	...	225	127	144	9	...	...	271
Orange	111	117	228	94	86	...	2	...	182	108	97	...	3	...	209
Pomeroy Precinct	185	167	352	104	63	47	1	...	235	166	155	3	...	...	325
Pomeroy—															
1st Ward	44	138	182	112	40	13	3	...	168	139	45	...	...	...	188
2d "	119	96	216	68	111	29	...	...	207	94	112	...	1	...	203
3d "	218	206	424	211	179	45	3	...	437	294	207	5	2	...	514
4th "	111	60	171	49	83	34	...	...	166	72	90	12	...	...	175
Pagerville Precinct	76	128	207	93	55	...	27	...	175	75	50	33	31	...	189
Rutland	131	451	580	300	117	1	6	...	514	420	121	2	19	...	560
Rutland Precinct	145	171	316	130	124	2	1	...	271	182	161	...	...	...	340
Salem	145	245	390	210	133	...	11	...	354	216	143	...	13	...	372
Syracuse Precinct	195	285	480	135	119	22	8	...	285	171	143	9	3	...	319
Silver Run				42	11	1	...	...	54	44	13	1	...	...	58
Totals	2773	2902	5678	2043	2178	350	97	...	5616	3676	2425	236	99	...	6453

MERCER COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Thiden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Page.	Andrew Roy.	Jere N. Robinson.		
Black Creek	128	74	202	30	107				137	43	116			160	
Butler	188	70	258	46	128				177	55	172			231	
Center	160	134	294	103	130				233	117	136			253	
Dublin	249	139	388	72	170				240	115	179			296	
Franklin	143	39	182	20	76				96	24	73	5		106	
Gibson	168	61	229	57	107				164	68	142			211	
Granville	255	41	296	24	157				173	27	216			244	
Hopewell	143	44	187	28	111				139	36	105			163	
Jefferson	330	113	443	63	225				368	94	318			471	
Liberty	137	39	176	18	76				113	19	80			99	
Marion	346	47	393	27	196				224	34	240			281	
Recovery	215	34	249	24	135				160	40	144			184	
Union	134	207	341	134	86			12	223	131	83			287	
Washington	174	50	223	36	112				148	48	142			283	
Totals	2840	1128	3968	708	1876			12	2860	860	2182	5		3129	

MIAMI COUNTY.

Townships and Wards	President—1876		Total vote.	Governor—1877.						Tot. vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Boul.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	John N. Robinson.		
Bethel	226	174	400	133	179				314	131	163			294	
Brown	256	148	414	131	225		3	2	364	141	249			409	
Concord															
1st Precinct	212	277	590	357	184		2	1	554	378	178	27	3	587	
2d	225	326	551	310	234				552	322	220	15	3	561	
Elizabeth	158	143	299	116	132				249	130	104		7	241	
Lost Creek	156	213	369	129	150				341	189	135			324	
Monroe	253	356	610	312	229				541	353	232	1		587	
Newton	173	322	560	271	154		5		429	265	115		7	389	
Newberry—															
East Precinct	306	349	650	271	265		19	2	559	243	233	2	34	514	
West	190	119	309	82	130		1		314	69	192		4	195	
Spring Creek	225	182	410	139	202			2	343	145	214		3	365	
Stanton	141	212	353	168	117				283	179	113	7		299	
Union	160	524	747	453	167		5		626	530	151		6	685	
Washington	138	146	280	107	87		1	20	215	97	80	14		194	
Piqua															
1st Ward	132	98	231	72	101		1	11	185	97	92	3	2	194	
2d	307	112	420	71	259		1	7	318	99	252	1	3	356	
3d	123	214	339	171	116		4	10	302	210	98	11	5	324	
4th	94	253	349	212	84		2	10	306	226	64	3		312	
Totals	3509	4388	7931	3564	3015	..	54	65	6718	3814	2834	87	93	6850	

MONROE COUNTY.

Townships and Wards.	President—1876.			Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	John N. Robinson.			
Adams	206	52	258	38	158				194	41	179			225		
Benton	157	34	192	30	100				131	25	98			126		
Bethel	148	96	246	65	161		4		171	73	101			174		
Centre	411	119	533	110	326				499	111	220			499		
Franklin	137	134	275	104	111				216	102	83	31		218		
Green	202	40	242	29	101				192	21	121			182		
Jackson	207	60	267	12	116				128	20	122			148		
Lee	197	58	255	39	130				169	30	143			187		
Malaga	227	109	336	87	108				296	68	177	1		266		
Ohio	213	157	370	116	140				252	89	129			213		
Perry	169	88	257	72	123				202	74	125			200		
Salem	227	170	468	115	212				327	134	230			367		
Seneca	198	62	259	55	121				246	51	125	3	3	245		
Summit	174	35	209	30	149				127	38	133	1		172		
Saubury	240	89	331	72	217				280	72	214			299		
Switzerland	179	59	238	30	112				142	33	162			195		
Washington	265	61	326	56	120				246	34	121	39		256		
Wayne	180	39	210	28	143				170	35	146	3		187		
Totals.....	3805	1462	5261	1092	2927		11		4033	1084	2047	86	3	4168		

MONTGOMERY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.	
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnea.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Dayton—																
1st Ward	383	317	700	306	304	51	1		564	364	246	4	5		630	
2d "	355	327	682	325	311	24			563	373	113	4	2		491	
3d "	286	389	675							413	103	11	4		531	
4th "	A			213	194	4			342							
5th "	B			199	88	3			286							
6th "		318	360	292	166	4	10		483	103	334	3			441	
7th "	A	350	700						260	321	6				567	
8th "	B			911	146	19	1		371							
9th "				100	148	15	4		268							
10th "	A	463	503	908					212	309	10	4			535	
11th "	B			180	186	40			302							
12th "	A			207	190	53	2		461							
13th "		544	588							247	318	23	3		593	
14th "	A			74	224	18			316							
15th "	B			75	200	19			295							
16th "	C			51	136	38	1		214							
17th "		466	506	736						391	231	18	2		543	
18th "	A			106	144	9			261							
19th "	B			94	320	17			433							
20th "	C			60	144	10	1		213							
21st "		195	281	496	225	192	30	8	455	370	350	17	1		639	
22nd "		178	174	352	104	95	8	7	214	142	171	1	2		515	
23rd "		500	361	861						353	237	7	13		613	
24th "	A			154	211	57	1		422							
25th "	B			104	184	52			340							
26th "										161	26	10	1		440	
27th "										180	317	21	3		459	
28th "										309	371	29			708	
Butler	294	298	592	253	189	5	14		461	379	174	12	25		491	
Clay	351	312	663	253	315	5			573	379	335	5			690	
German	431	407	838	346	293	5	9		782	359	403	24	10		798	
Harrison	297	221	518	167	237	6	3	2	418	193	243	3	6		449	
Jackson	377	177	554	140	352	2	5		505	141	344	6	29		540	
Jefferson	1021	915	1936	691	926	25	1		1634	797	1174	16			2900	
Madison	299	148	447	113	237				352	148	267				416	
Mad River	231	197	428	159	180		6		347	160	198	2			358	
Miland	652	483	1135	428	637	20	3	2	1094	473	651	16	4		1144	
Perry	269	215	484	159	234	8	12		405	157	236	1	7		391	
Randolph	298	172	470	104	238	12			360	140	239	2			410	
Van Buren	292	193	485	161	245	1	6		415	191	265	2	1		459	
Washington	156	298	454	247	149	2			400	249	132	1	5		388	
Wayne	144	149	294	146	143		2		221	163	173				296	
Totals	6971	7921	14892	6311	7830	549	100	2	14952	7307	2572	254	127		16335	

MORGAN COUNTY.

Townships and W rds.	President— 1876.		Total vote.	Governor—1877						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David H. Paige.	Andrew Roy	Jesse N. Robinson.			
Bloom	106	69		84	94				179	65	103			190		
Bristol	204	127		120	104		3		317	124	199			329		
Center	175	93		73	161				234	79	159			239		
Deerfield	114	85		67	117		3		237	97	114	1	3	216		
Homer	127	225		209	114		3		326	244	117		1	364		
Morgan	243	223		220	234		20		474	216	353		44	514		
Manchester	102	51		89	92		5	14	151	52	91	24		167		
Malia	138	246		215	118		15		349	210	117		20	367		
Maulon	100	332		295	94		41		433	203	65		40	421		
Mcigsaville	143	124		106	129		10		271	115	150		11	277		
Penn	51	109		181	69		11		255	163	83		16	303		
Union	181	175		146	159		9		317	139	170	10	5	393		
Windsor	276	233		209	203		3		464	214	268	3	1	468		
York	143	90		83	141		3	3	233	98	152	3		233		
Totals	2109	2376	4581	2065	1981		139	16	4209	2166	9041	43	146	4419		

MORROW COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Namuel J. Tilton.	R. R. Haynes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Step. Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Bennington	50	192	244	139	50	17	1	1	206	153	47	25	26	9	1	338
Canaan	123	121	251	85	115	20	3	1	223	75	104	19	26	5	1	324
Cardington	180	363	547	249	198	60	3	1	527	302	174	23	19	5	1	550
Chester	113	177	292	161	109	3	3	1	273	150	112	2	2	3	1	267
Congress	211	71	283	58	187	4	4	1	249	54	184	0	0	0	1	329
Franklin	163	93	256	70	158	1	1	1	230	81	154	1	1	2	1	329
Gilead	211	374	602	339	203	2	2	1	563	378	217	1	1	2	1	690
Harmony	118	57	177	56	117	1	1	1	176	52	110	1	1	1	1	283
Lincoln	76	141	220	110	66	1	1	1	187	132	66	4	4	7	1	308
North Bloomfield	157	130	290	103	130	1	1	1	238	121	124	6	6	4	1	354
Perry	194	146	347	33	182	1	1	1	228	37	140	23	1	1	1	371
Pera	44	133	207	90	71	25	1	1	186	86	69	3	3	23	1	243
South Bloomfield	110	168	292	125	89	41	6	1	261	143	94	16	16	46	1	399
Troy	89	79	168	71	82	1	1	1	154	77	73	3	3	3	1	233
Washington	87	145	232	127	75	5	1	1	207	137	74	1	1	4	1	316
Westfield	128	102	231	123	113	4	1	1	240	138	107	1	1	1	1	356
Totals	2046	2450	4600	1942	1945	242	19	19	4148	2126	1855	164	172	172	4338	

MUSKINGUM COUNTY.

Townships and Wards.	President— 1876.			Governor—1877.							Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. R. Hayes.	Total vote.	William H West.	Richard M Blisop.	Lewis H Bond.	Henry A Thompson.	Stephen Johnson.	Total vote.	Milton Barnes.	David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Adams	105	55	160	62	98				160	53	81			134		
Blue Rock	90	163	254	139	98				238	179	92			514		
Brush Creek	149	128	277	111	141				255	92	127	25		404		
Casa	120	60	200	70	97				170	70	99	3		269		
Clay	90	97	186	63	86				177	91	84	11		268		
Falla	160	192	352	167	160			6	338	145	189	7		639		
Harrison	141	148	289	105	141				251	102	140	2		393		
Highland	60	123	183	116	56				179	115	115	3		297		
Hopewell	195	144	339	145	172		10	7	332	159	178	30	13	544		
Jackson	162	164	326	138	153		10	6	303	118	149	25	2	497		
Jefferson	141	148	289	140	139			3	283	137	118	8	2	393		
Licking	91	131	222	102	103			4	216	122	96	7		313		
Madison	84	105	189	104	89		9		199	112	69	3	14	281		
Melba	205	128	333	171	184			2	360	90	182	21		553		
Monroe	105	115	220	90	80		2		180	103	100	2	1	283		
Muskingum	132	103	230	99	116			5	230	107	120	9		366		
Newton	250	260	510	215	234		6	7	461	231	217	18	5	670		
Perry	170	74	244	48	147		2	3	209	48	139	26		313		
Rich Hill	138	169	311	161	122		4	1	288	167	113	9	3	399		
Salem	108	95	204	65	112		16	1	197	68	100	4	15	277		
Salt Creek	123	125	248	102	112		5	2	231	115	108	5	2	354		
Springfield	172	107	281	78	145			6	213	78	182	10	2	385		
Union—																
Concord Precinct	64	113	181	106	59		2	1	188	126	58	3		254		
Norwich	86	98	187	83	78		1	3	160	106	67	6		233		
Washington	247	28	338	62	198			5	358	70	201	4		564		
Wayne	197	154	353	128	138			6	293	114	165	10		468		
Zanesville—																
1st Ward	122	223	345	167	110		1	1	234	129	103	7	1	344		
2d	254	206	472	140	226			5	468	158	257	16		732		
3d	268	185	454	144	273			12	430	157	240	29		679		
4th	200	148	348	114	210			18	343	149	179	10		542		
5th	257	248	505	180	217			28	438	218	228	37		663		
6th	213	140	354	87	193			58	351	146	184	37		568		
7th	113	201	315	160	165			1	291	202	95	16	1	315		
8th	270	191	463	162	257		3	29	452	185	250	34	1	645		
9th	134	296	430	265	129			14	410	251	128	31		410		
Totals	5457	5232	10750	4222	4994	1	63	300	9667	4564	4899	495	60	9997		

NOBLE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis R. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.		
Beaver	206	157	363	137	217				370	139	197	16	8	360	
Brookfield	93	135	228	121	94				229	110	83	7		209	
Buffalo	109	73	180	67	89				156	59	105	3		167	
Caldwell	89	105	196	97	93				156	101	89	13		202	
Center	116	237	353	243	119				362	223	95	31		349	
Dexter	32	66	101	62	35				98	70	30	4		106	
Elk	223	110	333	90	183				274	95	170	3		273	
Knock	197	67	264	68	176				247	44	160	45		258	
Jackson	133	114	247	100	127				227	95	111	16		222	
Jefferson	74	175	250	122	76				198	94	51	34		179	
Marion	49	235	323	231	64				310	158	27	134		319	
Noble	187	131	318	128	189				319	84	152	38		290	
Olive	158	128	284	127	153				280	127	147	19		282	
Seneca	66	121	185	124	67				192	93	69	43		205	
Sharon	191	69	260	62	199				256	54	125	9	1	249	
Stock	130	178	310	158	121				280	89	104	72		265	
Wayne	44	108	166	165	40				151	74	22	47		143	
Totals	2096	2225	4320	2058	2037		4	1	4139	1719	1805	527	24	4078	

OTTAWA COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State— 1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H West.	Richard M Bishop.	Lewis R. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N Robinson.		
Bay.....	79	26	105	17	78				95	12	79	4			95
Benton.....	203	102	305	69	199				272	56	127	55			309
Carroll.....	122	61	244	47	184			4	231	22	100	60			299
Catawba Inland.....	42	74	116	55	34				86	51	40	17			108
Clay.....	409	312	721	164	311				554	96	311	211			617
Danbury.....	122	105	291	61	136				243	71	104	3			238
Erie.....	66	89	115	39	50				99	37	63	21			121
Harris.....	228	216	507	189	274				469	125	261	110			497
Portage.....	223	177	401	140	210		5		359	140	243	41			434
Port-In-Bay—															
1st Precinct.....	50	110	161	80	42				127	79	46	1			127
2d “.....	14	21	35	18	13			1	33	17	6	8			31
Salmon.....	470	78	550	67	404				471	33	395	51			481
Totals.....	2208	1336	3551	940	1844		7	22	3042	739	1985	560			3317

PAULDING COUNTY.

Townships and Wards.	President— 1876.		Total vote	Governor—1877.					Total vote.	Secretary of State— 1878.					Total vote.
	Samuel J. Tilden.	R. R. Hayes		William H. West.	Richard M. Bishop.	Lewis H. Bond	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jesse N. Robinson.		
Anglaise	122	25		33	104			17	180	99	93			128	
Benton	90	50		30	40				90	44	54			106	
Blue Creek	23	61		57	25				82	15	26			61	
Brown	123	174		104	95			10	209	145	115			260	
Carroll	223	263		217	199		2	12	420	326	202	15		443	
Craw	21	141		115	77				90	131	96			237	
Emerald	23	72		40	54			30	130	37	61	38		156	
Harrison	40	65		53	37				90	66	47			113	
Jackson	74	80		28	52		2		122	24	57	2		173	
Latta	63	46		31	55				86	34	63			97	
Paulding	107	102		107	107			1	214	109	104	5		216	
Washington	133	156		120	119				240	127	137			264	
Totals	1160	1313			924		2	42	2021	1171	1097	67		2235	

PERRY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Bearfield	91	109	191	93	83			5	181	95	77	12		184		
Clayton	126	130	256	130	114				244	146	116	2		262		
Coal	163	167	330	105	150			217	474	133	165	277		637		
Harrison	144	165	314	124	118		1	10	254	151	113	12		276		
Hopewell	102	108	210	87	149			24	260	74	143	44		261		
Jackson	244	134	378	119	219			2	342	137	222	8		377		
Madison	68	160	228	92	63			5	161	106	92	17		179		
Monroe	120	109	229	101	160			2	263	109	106	16		229		
Monday Creek	170	101	271	85	141		3		226	122	176	3		301		
Pike	410	223	633	210	307		1	6	523	230	406	22		658		
Pleasant	63	91	154	93	95			2	190	93	85	11		189		
Reading	450	329	779	215	371		2	108	711	213	328	101		742		
Salt Lick	214	226	440	214	225		2	130	561	217	221	245		683		
Thorn	363	89	452	95	316		1	4	418	94	312	13		419		
Totals	2810	2084	4894	1743	2221	..	14	519	4040	1916	2020	223		4159		

PICKAWAY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. H. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	John N. Robinson.		
Circleville—															
1st Ward	174	75		69	158				237	70	170	5	1		275
2d	311	258		208	309				519	124	211	13			349
3d	109	171		144	178				320	109	173	13			304
4th	113	75		84	107				171	64	124	9			190
5th										100	126	13			244
Circleville	97	29		26	84				110	28	90	1			119
Darby	171	201		163	140				304	106	140	3			315
Deer Creek	189	164		146	177		1	1	365	120	106	3		1	347
Harrison	210	125		110	192				303	116	200	4			320
Jackson	173	114		83	137		4		294	100	161				273
Madison	180	34		32	102				194	30	151	14			199
Monroe	177	209		210	180				390	191	157	18			360
Mableburg	94	170		149	75			1	225	145	73	11			220
Perry	145	230		203	131				330	110	151	1			349
Pickaway	200	162		102	167		1	1	371	120	104				364
Salt Creek	316	175		144	197	2	1		514	156	197				354
Salato	253	138		109	231				341	123	234				350
Walnut	201	156		127	208				336	115	190	5			330
Washington	225	38		25	220		3		248	23	218				241
Wayne	113	60		42	90				136	53	111	3			160
Totals	3329	2565	5894	2156	3137	2	9	3	5394	1890	1204	97	9		5712

PIKE COUNTY.

	President— 1876.			Governor—1877.						Secretary of State—1878.				
Townships and Wards.	Samuel J. Tilden.	R. H. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Total vote.	Milton Barnes.	David R. Paige.	Andrew Roy.	John N. Robinson.	Total vote.
Brown	115	45	160	24	23				117	217	109			160
Brown	137	20	157	24	123				217	124	154			244
Camp Creek	116	68	184	26	40				133	46	109			174
Jackson	150	200	350	144	102	31			279	123	122	39		274
Madison	205	54	259	41	179				213	51	100			264
Monroe	97	45	142	23	23				141	24	34			140
Monroe	152	127	279	103	101		4		210	120	104			240
Onion	304	141	445	120	144				264	147	100	15		364
Onion	157	104	261	104	134				238	124	100			260
Perry	94	74	168	21	23				118	24	34			174
Sal	142	174	316	42	120		2		265	120	141			275
Sal	60	20	80	23	23				106	23	34			120
Sal	161	30	191	19	121		2		192	23	127			220
Sal	33	44	77	2	10				100	23	34			111
Totals	2004	1463	3467	1025	1171	31	40	1	3090	1214	2016	103	39	3472

PORTAGE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.		
Atwater	109	187	301	145	94	..	4	20	263	159	84	22	4	..	267
Aurora	65	101	166	102	60	..	1	..	163	97	57	3	1	..	158
Brimfield	175	80	255	69	165	..	..	3	237	77	175	4	..	..	256
Charlestown	49	126	175	113	46	..	..	1	160	110	46	8	..	..	164
Deerfield	78	188	265	148	65	..	3	3	240	178	57	4	5	..	249
Edinburg	78	140	218	119	74	..	..	..	196	132	58	7	5	..	200
Franklin	378	439	817	314	250	..	13	135	721	309	217	160	17	..	704
Freedom	69	165	234	134	47	..	1	13	198	142	51	7	..	..	300
Garrettsville	75	171	245	135	77	..	15	2	231	159	67	2	6	..	235
Hiram	136	177	313	141	147	..	1	..	289	155	149	1	..	..	305
Maumau	174	150	324	111	149	..	2	5	273	126	143	7	4	..	320
Nelson	120	135	259	109	116	..	6	..	231	108	90	8	4	..	211
Palmyra	125	110	237	63	130	..	..	1	214	89	186	8	1	..	294
Paris	53	193	175	113	42	..	..	2	158	118	46	1	1	..	169
Randolph	169	234	419	211	158	..	2	..	374	213	148	5	5	..	360
Ravenna	456	521	981	422	353	..	6	78	782	475	338	120	9	..	943
Rootstown	135	176	311	148	115	..	1	5	270	150	114	7	3	..	374
Shalersville	133	113	246	96	112	..	..	6	222	99	99	28	..	..	236
Streetsboro	68	103	191	67	96	..	..	4	169	61	93	9	4	..	189
Suffield	256	94	350	59	238	..	..	..	390	20	217	..	..	..	297
Windham	79	170	251	156	75	..	8	..	241	109	76	2	4	..	251
Totals	3006	3712	6707	3031	2694	....	69	287	6030	3221	2451	408	73	....	6159

PREBLE COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Dixon	97	158	255	128	110	..	1	..	241	144	121	..	4	..	269	
Gasper	101	101	201	76	87	..	..	..	163	94	84	1	..	..	181
Gratis	166	225	474	190	143	11	76	..	418	219	137	..	71	..	429	
Harrison	307	312	621	261	240	..	12	..	555	255	278	..	35	..	557	
Israel	61	314	398	226	67	..	13	..	308	254	60	..	12	..	349	
Jackson	134	263	340	176	107	..	6	..	289	173	136	..	3	..	313	
Jefferson	224	261	483	208	195	..	43	..	447	224	214	1	50	..	491	
Lanier	252	154	406	134	223	..	1	..	357	134	219	..	8	..	380	
Molroe	198	189	404	145	122	..	37	..	368	106	193	3	48	..	410	
Sumner	163	367	547	318	185	..	6	..	511	330	180	2	7	..	530	
Twin	335	140	494	195	302	..	..	..	430	127	286	..	..	..	493
Washington	495	502	1009	473	375	..	2	..	853	475	465	24	6	..	975	
Totals	2551	3004	5636	2461	2356	11	197	..	5040	2595	2306	31	241	..	3265	

PUTNAM COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.		
Blanchard	970	115	385	86	209				307	70	227	3		361	
Greensburg	134	56	191	29	97				196	33	86		1	120	
Jackson	161	40	201	19	113				173	41	110			133	
Jennings	202	82	290	48	179				224	67	169			235	
Liberty	214	114	338	82	178				296	71	162	10		245	
Monroe	64	63	127	41	53		2		92	20	29	21		69	
Monticrey	202	27	230	8	147				158	31	100			163	
Ottawa—															
East Precinct	316	117	438	90	294		11	1	394	85	279	31		395	
West "	253	6	261	9	290			1	233	6	214			227	
Palmer	126	40	166	26	88		2		119	11	63	4		109	
Perry	21	96	175	55	83				119	52	26			144	
Pleasant	334	333	667	270	300		11		541	290	305	3		599	
Elley	159	93	247	78	122				280	62	122	5		195	
Sugar Creek	111	152	263	143	96				241	151	99			250	
Union	165	104	270	89	134	1	1		221	90	142			232	
Van Buren—															
North Precinct	125	60	246	40	156				193	24	130	33		187	
South "	194	102	296	63	161				225	38	134	51		294	
Totals	3174	1606	4780	1183	2614	1	27	2	3449	1110	2548	162		3898	

RICHLAND COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.		
Blowing Grove.....	194	112	304	72	124	..	5	..	269	72	174	..	2	248	
Butler.....	75	113	188	92	77	..	1	..	170	93	70	..	1	164	
Cass.....	121	201	324	175	170	..	..	1	347	177	166	..	..	343
Franklin.....	109	64	233	42	155	..	..	..	197	42	135	..	..	177
Jackson.....	192	66	218	58	149	..	..	..	207	54	128	..	..	188
Jefferson.....	301	300	601	246	295	..	13	..	556	214	260	11	12	497	
Madison.....	241	184	427	150	221	..	4	..	377	149	200	4	2	364	
Mifflin.....	162	64	232	47	140	..	..	..	188	44	95	1	..	140
Monroe.....	259	152	411	138	234	..	..	..	372	129	226	..	..	356
Perry.....	96	71	167	53	93	..	..	1	147	50	66	2	..	118
Plymouth—															
North Precinct ..	112	158	271	134	104	..	4	..	243	116	96	..	10	222	
South ..	77	69	146	65	71	..	..	..	136	55	62	1	..	118
Sandusky.....	101	50	151	39	87	..	..	2	108	36	79	..	..	115
Sharon.....	310	398	708	364	16	..	4	..	667	354	274	..	4	632	
Springfield.....	191	120	373	146	185	..	4	4	339	141	145	15	1	392	
Troy.....	174	161	335	137	173	..	1	1	312	142	146	..	..	299
Washington.....	200	173	373	145	192	..	..	..	338	144	177	..	1	324
Waller.....	116	142	268	120	111	..	10	..	249	109	64	..	21	220	
Worthington.....	220	131	430	106	224	..	..	..	397	93	242	16	1	358
Manassah—															
1st Ward.....	107	210	317	105	103	..	2	..	301	267	150	1	4	422	
2d ..	298	317	615	275	287	..	..	..	572	187	240	7	9	463
3d ..	276	164	441	142	260	..	1	..	407	131	256	..	..	387
4th ..	316	169	480	146	312	..	5	..	465	135	320	3	7	465	
Totals.....	4407	3642	8075	3091	4187		63	10	7324	2922	3240	61	77	6907	

ANNUAL REPORT.

ROSS COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jess. N. Robinson.		
Buckskin	231	296	523	251	221				476	231	223	2		456	
Colerain	219	174	393	172	200			5	377	195	200	5		401	
Concord	301	428	729	351	222				573	324	252			708	
Deerfield	143	182	333	156	136		3		294	163	126	1		289	
Franklin	102	117	219	88	91				199	108	108	4		214	
Greene	223	212	435	202	231				433	201	211	2		416	
Harrison	158	104	263	91	137				228	99	123	2		224	
Huntington	225	182	407	140	277				424	162	278	21		460	
Jefferson	126	66	218	65	102				194	98	121			220	
Liberty	243	144	387	94	125			5	296	122	204	4		337	
Palat	116	120	237	74	67				142	92	99			192	
Paxton	210	196	411	157	191				348	209	212	1		422	
Scoto—															
East Precinct	97	101	199	100	100			1	201	96	84	14		194	
West "	90	80	171	68	73				142	70	83	9		163	
Springfield—															
East Precinct	103	78	180	54	88				142	56	78	2		138	
West Precinct	77	94	171	40	77				116	26	101			197	
Twiss	232	228	463	220	197			18	443	224	201	71		507	
Union—															
North Precinct	32	73	111	57	42				99	54	46			100	
South "	217	271	488	166	196			3	393	224	207	18		447	
Chillicothe—															
1st Ward	402	314	716	252	401	14		9	678	312	325	39		739	
2d "	158	238	392	245	157	2		1	410	274	150	2		433	
3d "	360	179	539	147	371	1		1	530	190	348	16		547	
4th "	266	255	532	197	256	14		16	488	226	238	55		523	
Totals	4431	4177	8607	3445	4064	31	3	60	7664	3915	4070	229		8297	

SANDUSKY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jess. N. Robinson.			
Ballville	236	227	463	187	212	..	..	..	407	140	217	107	..	..	465
Bellevue Precinct	74	81	155	72	71	..	..	..	145	60	48	38	..	..	164
Green Creek	306	423	729	355	237	..	..	4	592	335	193	232	14	..	779
Jackson	159	187	346	128	121	..	..	..	249	134	156	46	..	..	331
Madison	202	160	362	111	201	..	..	..	311	109	177	116	..	..	396
Rice	140	57	203	123	208	..	..	..	337	36	111	17	..	..	185
Riley	246	131	377	39	134	..	..	..	380	66	265	58	5	..	333
Sandusky	216	133	349	123	193	..	..	..	391	76	152	141	..	..	369
Scott	170	133	303	104	129	..	..	2	265	106	173	23	..	..	314
Townsend	162	170	332	112	151	..	..	1	247	108	144	35	8	..	296
Washington	249	194	443	163	325	..	..	..	480	188	225	22	..	..	541
Woodville	262	160	422	72	255	..	..	..	527	42	237	67	..	..	346
York	126	223	349	169	87	..	..	2	254	138	78	79	7	..	303
Fremont—																
1st Ward	121	220	341	245	181	..	..	4	374	115	49	60	..	..	225
2d "	206	187	393	156	226	..	..	..	422	121	152	..	..	..	315
3d "	201	102	303	78	197	..	..	..	275	111	166	95	1	..	208
4th " .....	..	..	..	..	..	..	..	..	..	133	184	128	2	..	377
Stem Town Precinct	54	112	167	74	52	..	..	2	126	77	30	23	..	..	140
Totals	3330	3022	6352	2390	3037	..	11	139	5639	1912	2718	1504	40	..	6187	

SECRETARY OF STATE.

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SCIOTO COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jerro N. Robinson.			
Bloom	130	238	374	129	133				263	183	123		7	337		
Brush Creek	255	97	353	74	219				288	78	217			295		
Clay	140	137	277	101	120				222	137	122			265		
Green	181	218	402	174	164		1		339	183	162		2	355		
Harrison	113	168	279	136	93	1			290	153	100			253		
Jefferson	94	55	151	35	77				113	58	101			159		
Madison	155	208	364	138	128		3		270	184	142		1	337		
Morgan	59	137	196	116	58				172	145	59			204		
Nile—																
Upper Precinct	84	106	192	89	78				167	106	83			189		
Lower "	104	89	171	63	96				162	87	86			175		
Porter	211	237	449	185	206	3			396	225	210			441		
Rush	89	65	165	69	96				168	66	94			160		
Union	120	80	146	17	107				125	35	192			227		
Valley	78	86	166	68	78				146	85	100			186		
Vernon	169	135	304	94	154				249	101	129			323		
Washington	97	146	246	127	105				233	145	91	2		239		
Portsmouth—																
1st Ward	230	107	347	82	236				318	190	212			338		
2d "	152	213	426	210	184	2			380	271	156			498		
3d "	153	179	332	155	166				321	171	150			321		
4th "	130	170	300	141	144				286	177	139			317		
5th "	144	256	404	204	161			1	367	224	160			368		
6th "	120	238	360	213	127				345	236	141			378		
Totals	3035	3350	6397	2610	2904	6	5		5560	3179	2973	26	9	6206		

SENECA COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jerro N. Robinson.			
Adams	145	113	258	92	116				219	90	111	23		226		
Green Spring Precinct	40	82	122	67	35				105	78	46	9		135		
Big Spring	314	74	388	56	261				318	71	324	3		396		
Bloom	244	251	500	205	298				440	230	215	26		399		
Clinton	267	180	447	134	307	2			344	150	199	25		375		
Eden	190	191	384	187	179				365	189	168	42		401		
Hopewell	242	124	366	89	166				219	194	103	6		323		
Jackson	124	104	228	153	126			1	273	191	118	10		319		
Liberty	199	250	449	196	181				386	191	185	51		427		
London	206	82	290	89	166				219	66	218	2		266		
Portoria Precinct	232	446	697	321	319		64		603		241	42		706		
Pleasant	152	169	321	123	133				255	149	147	4		300		
Reed	161	188	350	142	131			5	277	143	137	50		329		
Scipio	202	265	473	239	190		2		438	223	202	40		477		
Seneca	208	140	357	113	165				279	198	205	9		347		
Thompson	297	88	385	79	278				357	93	292	11		396		
Venice	295	203	501	157	266		6		431	192	275	14		481		
Tiffin—																
1st Ward	124	170	294	140	178				321	134	161	35		330		
2d "	178	126	307	113	171				290	110	172	47		329		
3d "	205	181	388	137	193				338	147	207	36		389		
4th "	194	151	345	128	159				291	133	159	28		322		
5th "	236	114	350	94	199	1	2		297	93	223	21		340		
Totals	4515	3793	8351	3009	3045	3	84	26	7190	3345	4210	544		8044		

SHELBY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. H. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barber.		David R. Page.	Andrew Roy.	Jesse N. Robinson.		
Clinton	426	489	.....	415	498	.....	1	1	921	.....	498	41	.....	.....	949
Cynthian	279	178	.....	53	213	.....	.....	.....	286	48	210	8	.....	.....	319
Dismore	359	126	.....	22	257	.....	.....	.....	345	89	216	14	.....	.....	319
Franklin	144	96	.....	74	130	.....	.....	.....	303	53	180	4	.....	.....	300
Greene	168	116	.....	24	160	.....	.....	1	346	93	144	26	.....	.....	364
Jackson	245	115	.....	76	194	.....	.....	.....	372	94	175	11	.....	.....	380
Laramie	203	101	.....	63	146	.....	.....	.....	329	83	168	17	.....	.....	368
McLean	113	15	.....	15	234	.....	.....	.....	250	10	249	.....	.....	.....	259
Orange	114	120	.....	90	100	.....	.....	.....	192	77	74	35	.....	.....	186
Perry	141	159	.....	140	121	.....	.....	.....	292	141	102	18	.....	.....	261
Salem	126	193	.....	108	119	.....	.....	.....	305	175	145	5	.....	.....	285
Turtle Creek	133	158	.....	132	88	.....	.....	13	233	156	67	41	.....	.....	240
Van Buren	204	103	.....	81	127	.....	.....	.....	220	67	114	10	.....	.....	191
Washington	121	125	.....	74	81	.....	.....	9	177	92	75	33	.....	.....	210
Totals	3141	1985	5126	1563	2544	.....	12	35	4222	1614	2340	203	3	.....	4222

STARK COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis R. Bond.	Henry A. Thompson.	Stephen J. Johnson.	Milton Barber.		David R. Page.	Andrew Roy.	Jesse N. Robinson.			
Bethlehem	346	163	519	133	309		1	1	442	117	246	9	10	393		
Canton	262	241	501	169	232		1	27	440	209	189	13		419		
Jackson	265	196	461	112	204			4	329	110	152	34		297		
Lake	391	152	473	130	307		1	1	440	127	224			411		
Lawrence	432	461	915	411	496		16	31	879							
Fulton Precinct										269	248	136		653		
Lawrence "										69	43	42	4	184		
Lexington—																
Alliance Precinct	416	750	1242	417	500		33	397	1084	159	111	120	2	390		
North Alliance Precinct										393	152	111	16	656		
South										65	25	33	6	128		
Linsville Precinct	44	118	175	65	59		90	22	146							
Mailboro	204	253	444	190	190		12	11	401	505	175	14	16	410		
Nimshillen	415	264	680	120	361		12	11	509	178	358	6	8	547		
Osnaburg—																
Osnaburg Precinct	179	142	323	198	174				302	124	150	1		275		
Mapleton "	60	137	197	121	52			2	175	722	40			162		
Paris—																
Minerva Precinct	133	152	286	133	118		1	4	256	139	107	1	1	248		
Paris	222	68	310	63	248			1	300	71	191	2		265		
Perry—																
Marshall Precinct	204	119	323	105	160			17	282	122	129	20		272		
Richville "	113	42	155	37	68			6	131	40	105	2		147		
Pike	101	246	347	203	92			2	297	209	83	8		302		
Plain	349	190	530	179	317			11	506	120	288	7		455		
Sandy	25	197	222	125	91			2	210	200	67			267		
Sugar Creek	204	225	501	222	167			3	435	222	187	3		440		
Tuscarawas	363	222	598	222	242			44	511	222	227	75		531		
Washington	220	245	468	196	206			6	434	213	196	11	2	362		
Canton—																
1st Ward	358	371	735	229	311			2	555	274	252	116		675		
2d "	222	302	542	217	190			2	409	329	222	40	1	593		
3d "	218	43	260	115	211				320	145	114	24		354		
4th "	372	205	581	148	322				64	204	310	64		561		
Masonville—																
1st Ward	155	200	357	156	142			15	314	120	170	7		326		
2d "	156	172	328	131	127			12	276	142	120	16		284		
3d "	222	209	503	221	196				21	259	210	26		475		
4th "	159	67	227	55	137			6	200	76	114	11		200		
Totals	6772	6410	13335	4919	5945		111	903	11920	5455	5255	209	80	11796		

SUMMIT COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Akron—																
1st Ward	235	441	455	205	210		16	41	569	303	271	35	10		698	
2d "	300	328	572	265	125		9	37	516	288	209	31	7		536	
3d "	212	283	507	147	208			47	448	225	213	48	9		498	
4th "	234	218	568	120	273		13	104	510	174	285	98	17		584	
5th "	200	227	431	131	168		4	88	394	176	160	69	5		411	
6th "	53	221	279	162	50		2	48	263	152	93	30	7		264	
Bath	56	223	280	179	48		4		233	161	41	1	4		209	
Boston	131	174	313	113	90			27	230	141	79	59			272	
Copley	114	193	307	144	95		9	5	217	125	100	6	4		236	
Century	274	154	435	96	184			43	396	93	178	50	2		331	
Cuyahoga Falls	121	318	441	246	114		1	17	392	321	91	23			447	
Franklin	210	168	448	112	216		31	107	361	107	211	51	10		323	
Greene	212	202	422	161	128		12	7	368	152	142	18	17		341	
Hudson	138	283	406	235	132		3	2	373	233	86	16	9		390	
Northfield	100	177	276	146	83				229	141	103	8			252	
Northampton	126	102	221	85	232			29	177	79	76	48			197	
Notion	234	171	405	114	171			36	302	117	184	49			370	
Portage	212	200	416	117	201		7	25	352	162	181	41	8		394	
Ricefield	41	219	264	119	30				215	206	51				246	
Springfield	271	271	492	146	238		7	44	456	164	239	38	7		443	
Stowe	100	142	244	110	90		1	4	205	106	85	2	3		196	
Tallmadge	74	219	296	204	65		5	13	227	214	50	11	1		277	
Twinsburg	75	117	193	101	59			1	182	102	77	3	1		184	
Totals	3201	5035	8232	3670	3248		85	649	7661	3923	3200	763	121		7108	

TREMBLE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Bazetta	81	145	226	84	78			3	163	79	78	3			162	
Courland Precinct	21	115	136	66	34		17	2	119	88	31	5	4		129	
Bloomfield	48	134	182	124	32				156	118	43				161	
Braceville	67	121	188	142	41		5		208	121	48	4	5		174	
Brickfield	71	218	289	201	70				275	112	51	9	3		278	
Brickfield	155	209	364	151	115			8	266	116	93	124	1		334	
Chambers	108	125	233	93	110				203	11	95	24	1		201	
Farmington	50	221	271	104	58		3	3	266	194	58	7	6		265	
Fowler	55	181	236	153	45		3		201	112	49				174	
Greene	48	113	161	155	33		8		198	148	39	9			206	
Gustavus	34	216	250	175	94		19		318	145	96	10	13		204	
Hartford	75	207	282	167	65		1	1	234	181	61	14	1		237	
Orangeville Precinct	19	39	58	35	18				53	34	11	1			43	
Howland	89	190	279	112	63				170	102	51	3			156	
Hubbard	27	214	241	167	91		2	67	479	135	168	112	4		420	
Coleburg Precinct	55	112	167	82	48		1	36	167	74	36	42	3		135	
Johnson	80	142	222	100	73		6		160	87	55	14	3		159	
Kinsman	51	219	270	177	29		2		215	126	36	22	3		190	
Liberty	119	225	344	125	89		16	10	300	70	75	129	10		286	
Glad Precinct	109	154	263	83	61		1	18	181	104	63	3	4		174	
Lorain	132	111	243	84	122				116	51	104				157	
Meers	83	110	193	156	60		7	1	224	154	59	3	9		226	
Metopotamia	28	201	229	100	80		2		183	139	94				170	
Newton	165	214	379	182	161		1		343	166	152	3	2		241	
Southington	66	140	206	114	77		1		194	103	70	1			175	
Veron	112	228	340	141	48		1		189	110	37	48	4		197	
Vernon	61	167	228	162	84		5	72	321	145	68	78	8		299	
W. the Field	272	508	780	324	116		7	15	604	277	115	66	3		481	
W. the Ridge Precinct	60	218	278	120	41		7	34	202	159	39	21			272	
Warren	143	112	255	90	127				217	79	97	2			180	
Warren—																
1st Ward	74	297	371	243	13		4	2	344	273	46	3	4		370	
2d "	165	261	426	207	144			11	365	209	131	10	4		355	
3d "	72	180	252	100	54			7	164	108	46				158	
Totals	3630	6133	9763	4763	2514		123	476	7273	4290	2152	619	109		7437	

TUSCARAWAS COUNTY.

Townships and Wards.	President—1878.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Burnes.	David R. Paige.	Andrew Roy.	Jerome Robinson.	
Auburn	261	61	322	57	173				230	49	176	1		239
Bucks	240	12	252	14	170				124	9	185			190
Clay	134	131	265	122	130				253	103	111			216
Dover	543	315	858	276	403				801	192	407	132	3	741
Fairfield	72	89	161	65	86				143	61	55	23		139
Franklin	158	92	250	81	144				228	73	135		1	206
Goshen	456	554	1045	491	483	4		9	1009	466	461	84		1612
Jefferson	221	43	264	41	197				238	39	182	7		238
Lawrence	179	166	345	139	154				297	123	144	32	10	302
Mill	237	571	808											
Christiansville Precinct				412	216		46		655	416	149	117		685
Dunsmuir	504	151	655	65	122	70			704	61	104	105		874
Oxford	249	203	452	181	203	13			397	104	168	36		569
Perry	129	110	239	73	166				183	71	107	6		184
Rush	83	132	215	102	73				170	113	55	4		174
Salem	208	180	448	121	215	4		3	345	136	198	24		352
Sandy	139	147	286	114	115				230	96	91	22		319
Sugar Creek	241	56	297	58	211			8	277	47	231	7		297
Union	25	130	155	84	29	4			117	96	28	4		198
Warren	59	100	189	85	81			6	173	79	46	36		174
Warwick	151	159	310	127	139			1	269	124	109	23		258
Washington	143	83	226	50	141				186	69	134	6		209
Wayne	197	57	254	55	176		1	9	243	51	153	7		212
York	161	62	223	45	136				181	48	129	5		183
Totals	4545	3574	6140	2207	3939	143	1	95	7092	2677	3578	687	8	9672

UNION COUNTY.

Townships and Wards.	President—1878.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Burnes.	David R. Paige.	Andrew Roy.	Jerome Robinson.	
Allen	91	223	314	189	225		2		227	186	52		1	240
Claybourne	227	438	665	363	282		5		612	280	157		57	516
Darby	147	139	286	144	144				271	123	125		1	249
Dover	119	78	197	78	113		3		186	93	100			203
Jackson	139	144	283	126	122				248	111	126			245
Jerome	139	202	341	166	137		5		304	166	94		26	386
Leesburg	143	177	320	166	136				303	164	113		2	380
Liberty	150	184	334	154	136		1		292	117	112		3	317
Mill Creek	143	46	189	82	112				146	32	93			136
Paris	385	413	798	366	404		26	1	612	422	317		28	769
Taylor	124	164	288	144	98		5		243	135	74		17	296
Union	120	264	384	177	108		5		255	200	113		4	317
Washington	94	176	270	133	92				192	150	36		2	186
York	50	373	423	248	89		5		341	195	69		9	374
Totals	3072	2239	5316	2530	1924		61	9	4540	2436	1590	5	184	4227

SECRETARY OF STATE.

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VAN WERT COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jesse N. Robinson.	
Harrison.....	199	85	284	73	175	..	..	..	251	71	188	..	..	250
Hongland.....	123	102	225	68	112	..	..	..	196	92	113	..	..	205
Jennings.....	84	135	219	137	73	..	..	1	213	127	58	..	..	180
Jackson.....	71	60	131	40	78	..	..	..	110	50	79	..	..	139
Liberty.....	148	127	275	112	137	..	..	..	250	128	120	..	..	279
Pleasant.....	180	156	336	158	140	..	..	..	298	162	132	..	..	301
Van Wert—														
1st Ward.....	74	159	233	127	21	..	..	..	207	130	80	..	..	212
2d ".....	82	101	183	92	23	..	..	1	176	88	72	..	..	159
3d ".....	77	154	231	143	73	..	..	..	217	143	76	..	..	220
4th Ward.....	127	156	283	153	132	..	..	..	287	111	119	..	..	264
Ridge.....	158	189	347	171	142	..	..	..	319	166	137	..	..	327
Tully.....	237	108	345	90	214	..	..	..	254	93	217	..	..	320
Union.....	137	84	221	55	194	..	..	..	181	72	124	..	..	196
Willshire.....	166	222	375	145	134	1	11	..	292	164	109	..	..	353
Washington.....	401	180	581	108	297	8	68	..	481	143	355	45	6	549
Middleport Precinct.....	104	104	208	89	91	..	..	..	184	98	96	..	..	194
Tork.....	62	208	268	193	60	..	..	..	253	193	59	5	..	257
Totals.....	2410	2260	4706	1952	2139	11	81	4207	2116	2214	52	6	4397	

VINTON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jesse N. Robinson.	
Brown.....	153	94	251	69	192	..	..	..	199	87	119	9	..	215
Clinton.....	171	155	321	118	177	..	..	..	299	125	162	..	..	293
Eagle.....	109	65	175	53	106	..	4	..	161	62	128	..	..	189
Elk.....	211	224	435	207	197	..	..	..	403	217	196	1	..	408
Harrison.....	153	78	233	66	115	..	..	..	191	79	118	..	..	197
Jackson.....	124	151	275	119	107	..	..	..	226	124	121	..	..	250
Knox.....	73	95	168	65	68	..	..	..	133	88	24	..	..	176
Madison.....	254	170	424	129	247	..	..	1	376	179	237	..	..	416
Richland.....	232	128	360	98	220	..	..	..	319	116	192	..	..	315
Swan.....	72	159	233	132	66	..	1	..	203	148	67	..	..	215
Vinton.....	146	34	183	19	143	..	..	..	163	36	157	..	..	196
Wilkesville.....	148	186	346	..	..	..	..	..	..	..	..	..	..	..
East Precinct.....	..	..	..	114	28	..	1	..	145	150	..	..	..	169
West ".....	..	..	..	63	122	..	2	..	197	52	129	7	..	220
Totals.....	1817	1533	3375	1250	1749	..	8	1	3096	1450	1795	17	..	3267

WARREN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. H. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jesse N. Robinson.	
Clear Creek—														
Ridgeville Precinct	145	118	263	100	125				225	105	128			233
Springboro "	157	258	415	203	136				339	247	135			404
Deerfield	220	221	441	126	215				341	230	234			464
Franklin	333	521	854	413	227				640	459	388			795
Hamilton	515	368	883	273	142				415	322	253			533
Harlan	281	240	521	194	236				430	191	240			431
Massie	45	357	402	260	40				317	306	48			347
Salem	224	227	451	208	204				412	214	201			415
Turtle Creek	443	954	1396	204	318				522	870	377			1255
Union	120	154	274	131	100				231	159	101			260
Washington	120	219	339	10	91				101	274	104			308
Wayne	212	479	691	394	193				587	427	205			698
Totals	2559	4104	6713	3396	2067	3	67	11	5502	3798	2332	6	18	6155

WASHINGTON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. H. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jesse N. Robinson.	
Adams	219	163	382	121	101				222	162	183	11		356
Aurelius	59	144	203											
Mackaburgh Precinct				36	17				53	31	11			74
Elba Precinct				42	30				72	83	34			103
Barlow	94	169	263	122	85				207	125	70			296
Belpro	126	136	262	114	106				220	107	91			210
Belpro Village	127	171	301	153	108				261	135	59			259
Decatur	121	191	312	136	94				230	139	105			260
Dunham	105	76	181	55	87				142	57	100			163
Fairfield	106	45	151	34	111				146	40	98			140
Fearing	163	102	265	22	167				242	23	173			220
Grandview	373	134	511	21	261				307	91	316			413
Harmer Village	169	215	386	129	115				244	217	110			327
Independence	270	44	317	38	203				244	36	199			241
Lawrence—														
Upper Precinct	177	126	303	104	134				237	100	139			240
Lower "	27	83	110	64	62				121	63	70			133
Liberty	155	189	344	126	121				246	120	124			277
L. Muskingum Precinct	140	210	353	135	131				269	141	90			266
Madison	215	44	259	46	197				245	43	173			233
Muskingum	116	107	223	82	100				192	120	124			247
Newport	240	225	465	172	211				383	159	215			408
Palmer	37	91	128	70	30				111	64	31			128
Salem	123	178	301	131	170				302	153	160			263
Union	125	52	177	35	147				176					
Warren	194	146	344	127	125				252	129	225			336
Waterford	174	276	450	212	173				381	221	139			431
Watertown	164	143	307	125	100				269	95	127			374
Weoley	58	259	317	231	62				293	246	58			300
Willsberg														
Marlette—														
1st Ward	121	206	326	149	212				365	158	212			400
2d "	148	253	401	211	163				371	240	165			406
3d "	176	134	310	136	180				316	157	175			335
Totals	4492	4361	8855	3464	4033		54	97	7643	3636	3061	460	44	7992

SECRETARY OF STATE.

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WAYNE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Baughman—														
First Precinct.....	73	138	.....	100	57	.....	9	.....	159	110	67	4	.....	184
Second ".....	67	108	.....	81	56	.....	1	.....	136	83	54	4	.....	143
Third ".....	137	115	.....	100	134	.....	1	.....	235	114	129	1	.....	237
Canaan—														
First Precinct.....	194	198	.....	151	187	.....	6	1	334	185	176	4	.....	346
Second ".....	58	144	.....	120	55	.....	6	.....	181	135	41	.....	.....	181
Chester—														
First Precinct.....	228	246	.....	203	218	.....	.....	.....	421	223	219	.....	1	445
Chippewa—														
First Precinct.....	371	320	.....	311	325	.....	.....	18	558	222	337	61	.....	623
Clinton—														
First Precinct.....	251	214	.....	172	239	.....	.....	3	414	209	218	5	.....	433
Congress—														
First Precinct.....	106	104	.....	164	164	.....	2	2	336	168	158	2	2	335
Second ".....	104	98	.....	53	107	.....	.....	.....	199	93	114	7	.....	216
East Union—														
First Precinct.....	265	172	.....	154	253	.....	.....	5	413	173	243	4	.....	430
Franklin—														
First Precinct.....	193	123	.....	100	106	.....	.....	2	294	122	185	1	.....	319
Greene—														
First Precinct.....	192	201	.....	121	106	.....	13	.....	241	140	101	21	.....	269
Second ".....	221	127	.....	107	164	.....	.....	2	373	128	179	2	.....	310
Milton—														
First Precinct.....	220	134	.....	80	184	.....	.....	1	266	92	189	2	2	285
Paint—														
First Precinct.....	232	51	.....	48	222	.....	.....	.....	271	50	209	1	.....	273
Plain—														
First Precinct.....	197	205	.....	208	156	.....	.....	3	367	243	187	6	.....	416
Salt Creek—														
First Precinct.....	199	133	.....	159	165	.....	.....	.....	325	196	185	.....	.....	373
Sugar Creek—														
First Precinct.....	256	125	.....	165	216	.....	.....	.....	381	169	221	1	.....	412
Wayne—														
First Precinct.....	240	186	.....	141	211	.....	.....	26	391	160	195	30	.....	386
Wooster—														
First Precinct.....	153	119	.....	111	139	.....	.....	7	257	122	131	4	.....	257
Wooster—														
1st Ward.....	235	142	.....	119	212	.....	.....	27	351	135	234	16	.....	384
2d ".....	177	204	.....	193	147	.....	.....	27	371	246	168	15	.....	431
3d ".....	149	102	.....	54	143	.....	.....	23	250	115	152	15	.....	282
4th ".....	90	75	.....	68	90	.....	.....	26	184	76	92	14	.....	184
Totals.....	4596	4009	8641	3943	4114	.....	30	168	7595	3708	4165	230	5	8126

WILLIAMS COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Brady.....	.....	308	.....	275	134	.....	.....	.....	409	265	120	.....	.....	383
Bridgewater	154	161	.....	143	123	.....	.....	.....	266	131	98	.....	.....	274
Centre	203	164	.....	142	172	.....	.....	.....	314	149	160	6	.....	341
Florence	285	202	.....	190	255	.....	.....	.....	445	185	233	6	.....	447
Jefferson	197	137	.....	116	174	.....	.....	.....	290	115	169	90	.....	304
Madison	183	228	.....	196	168	.....	1	.....	365	192	179	11	.....	366
Mill Creek	121	.....	.....	78	99	.....	.....	.....	178	73	111	4	.....	189
Northwest	132	.....	.....	161	111	.....	.....	.....	274	107	120	63	.....	322
Palauki	477	619	.....	460	462	.....	7	.....	922	496	422	7	.....	937
St. Joseph	250	193	.....	176	222	.....	.....	.....	398	166	222	1	.....	419
Superior	205	231	.....	210	193	.....	.....	.....	403	192	175	55	.....	417
Springfield	191	232	.....	161	174	.....	5	.....	360	165	204	11	.....	402
Totals.....	2545	2701	5246	2230	2307	.....	13	1	4651	2260	2280	269	5	4830

WOOD COUNTY.

Townships and Wards.	President—1876.			Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.	William H. West.		Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.	David R. Paige.		Andrew Roy.	Jess. N. Robinson.				
Bloom	196	223	420	155	140	—	—	—	296	304	177	—	—	—	366		
Center	114	306	420	231	99	—	—	—	330	232	111	—	—	—	457		
Freedom	195	145	341	116	189	—	—	—	305	114	187	—	—	—	350		
Henry	227	140	367	93	134	—	—	—	328	181	169	—	—	—	313		
Jackson	92	98	190	60	57	—	—	1	123	60	58	—	—	1	142		
Lake—																	
Milbury Precinct	171	115	286	68	116	—	—	1	186	54	100	57	—	—	211		
Walbridge "	74	101	175	68	44	—	—	—	113	49	65	41	—	—	155		
Liberty	120	188	311	111	76	—	1	—	188	165	93	10	—	—	271		
Middletown	176	191	368	136	151	—	—	—	329	131	168	69	—	—	359		
Milton	254	205	459	142	206	—	—	—	360	120	208	68	—	—	402		
Montgomery	206	252	458	208	184	—	—	—	392	129	189	32	—	3	462		
Perry	104	241	345	144	93	—	—	—	347	167	100	25	—	1	315		
Perryburg	487	437	924	236	337	—	—	—	660	195	347	185	—	—	727		
Plain	113	340	453	—	—	—	—	—	—	—	—	—	—	—	—		
East Precinct	—	—	—	122	90	—	—	—	212	213	85	26	—	—	325		
West "	—	—	—	48	13	—	—	—	62	70	13	34	—	—	117		
Portage	119	180	300	119	83	—	—	—	201	149	111	15	—	—	274		
Rosa	30	77	116	27	19	—	—	11	57	39	33	15	—	—	86		
Troy	225	70	297	69	169	—	—	—	294	67	198	24	—	—	399		
Washington	87	236	323	142	78	—	—	4	220	141	63	70	—	—	373		
Webster	60	175	235	114	64	—	—	—	202	131	86	36	12	—	306		
Weston—																	
Grand Rapids Prec't.	78	183	261	108	60	—	5	—	174	105	50	40	1	—	304		
Weston "	98	207	305	119	100	—	6	6	235	114	50	126	1	—	309		
Totals	3945	4079	7355	2719	2512	—	70	62	5395	2901	2690	1041	27	—	6686		

WYANDOT COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Fudge.	Andrew Roy.	Jesse N. Robinson.			
Antrim	65	78		66	68				134	63	52			115		
Crawe	164	148		123	166				289	149	157			399		
Crawford	206	259		183	203		1		389	263	223			488		
Eden	139	104		83	107				190	96	89			199		
Jackson	97	54		41	93				134	50	93			146		
Kirby Precinct	120	47		41	137				201	45	171			216		
Marcellus	78	100		109	89				171	117	71			188		
Mifflin	135	115		92	104				198	97	102		1	302		
Nevada Precinct	211	227		208	194		4		402	234	205			441		
Pitt	170	117		108	166				274	114	151			306		
Richland	129	112		86	184		3		250	99	154			345		
Ridge	77	62		35	74				109	40	58			99		
Salem	179	79		58	143				293	37	144			181		
Sycamore	79	183		124	64		1		191	145	68	1	11	223		
Tymochtee	217	154		126	175				381	129	186			315		
Upper Sandusky—																
1st Ward	210	105		84	229		3		316	66	223			321		
2d W.	233	127		153	236				389	125	276			426		
Totals	2619	2679	4701	1732	2405		18	1	4167	1907	2448	9	12	4386		

EDUCATIONAL STATISTICS.

EDUCATIONAL STATISTICS.

ESTIMATE OF RECEIPTS AND DISBURSEMENTS OF STATE COMMON SCHOOL FUND, FOR FISCAL YEAR, 1879. *

Receipts.

Balance in Treasury November 15, 1878.....	\$89,209 87
From taxes on duplicate of 1878.....	1,520,552 00
Total estimated receipts for School Fund	\$1,609,761 87

Disbursements.

For support of common schools, estimate being based upon the distribution of one dollar and fifty cents per capita for each enumerated school youth (1,041,963) between the ages of six and twenty-one years..... \$1,562,944 50

TABLE SHOWING THE ADDITIONS TO THE PRINCIPAL, THE DISBURSEMENTS OF INTEREST, AND THE INTEREST DUE IN 1879, UPON THE SEVERAL ITEMS OF THE IRREDUCIBLE STATE DEBT, CONSISTING OF THE SCHOOL AND OTHER TRUST FUNDS. *

Name of fund.	Amount paid into the State Treasury November 15, 1877.	Net amount of principal paid in or accrued during the year ending Nov. 15, 1878.	Total amount paid in, and balance remaining to the credit of each Nov. 15, 1878.	Interest accruing and disbursed during the year ending Nov. 15, 1878.	Interest due and payable after January 1, 1879.
Section 16, School Fund	\$3,019,343 44	\$23,380 75	\$3,042,724 19	\$180,517 55	\$182,131 29
Section 29, Ministerial Fund.....	114,042 18	900 40	114,942 58	6,820 70	6,824 42
Virginia Military School Fund.....	181,524 29	477 60	182,001 89	12,050 31	11,771 54
United States Military School Fund.	120,272 12	.....	120,272 12	7,216 33	7,216 33
Western Reserve School Fund.....	257,429 21	.....	257,429 21	15,445 75	15,445 75
Ohio University Fund	2,700 73	.....	2,700 73	.....	b 486 12
O. State Univ. F'd (O. A. and M. Col.)	501,602 56	.....	506,413 06	.....	.....
Franklin County Ag. Col. Bonds ...	} 34,500 00	} 4,820 50	} 34,500 00	} a 27,488 45	} 32,842 00 c 13,775 81
Totals.....	\$4,231,404 53	\$29,579 25	\$4,260,983 78	\$249,539 09	\$270,553 26

* From Annual Report of Auditor of State.
a This amount includes \$8,711.45 of interest that had accrued prior to January 1, 1878.
b Interest on Ohio University Fund was not paid in 1877 or 1878, not having been called for.
c This sum (\$13,775.81) is subject to draft if drawn prior to January 1, 1879 ; so much as is not then drawn will be added to the principal of the Endowment Fund.

TABLE SHOWING THE AMOUNT OF TAX LEVIED IN EACH COUNTY OF OHIO FOR THE SUPPORT OF STATE COMMON SCHOOLS FOR THE YEAR 1878.*

Counties.	State Com- mon School Fund, 1 mill.	Counties.	State Com- mon School Fund, 1 mill.
Adams	\$5,804 87	Licking	\$26,563 95
Allen	10,461 09	Logan	13,666 82
Ashland	13,110 80	Lorain	17,680 59
Ashtabula	16,370 33	Lucas	23,939 79
Athens	7,396 54	Madison	14,364 44
Auglaize	7,623 57	Mahoning	18,997 20
Belmont	20,995 74	Marion	13,156 02
Brown	11,021 40	Medina	13,034 80
Butler	33,044 79	Meigs	8,810 95
Carroll	8,989 84	Mercer	4,456 37
Champaign	20,593 52	Miami	21,543 94
Clarke	27,130 45	Monroe	5,621 13
Clermont	14,559 74	Montgomery	44,579 09
Clinton	14,155 40	Morgan	8,136 73
Columbiana	22,886 80	Morrow	12,414 16
Coshocton	13,226 92	Muskingum	25,633 37
Crawford	15,468 94	Noble	6,241 89
Cuyahoga	88,655 16	Ottawa	5,553 57
Darke	18,498 42	Paulding	2,419 05
Defiance	5,953 06	Perry	8,686 96
Delaware	16,507 88	Pickaway	19,367 71
Erie	11,413 62	Pike	5,390 83
Fairfield	18,297 67	Portage	16,209 21
Fayette	13,497 96	Preble	17,793 61
Franklin	50,661 13	Putnam	5,815 56
Fulton	5,334 38	Richland	21,906 10
Gallia	7,601 70	Ross	21,679 54
Geauga	8,023 96	Sandusky	13,025 31
Greene	22,472 07	Scioto	10,752 09
Guernsey	10,677 18	Seneca	18,605 95
Hamilton	211,574 93	Shelby	9,776 16
Hancock	12,379 83	Stark	32,851 00
Hardin	9,241 84	Summit	22,420 34
Harrison	13,080 32	Trumbull	19,751 49
Henry	4,587 18	Tuscarawas	16,892 92
Highland	15,313 28	Union	10,520 86
Hocking	5,711 97	Van Wert	6,224 02
Holmes	8,390 33	Vinton	3,922 65
Huron	17,785 78	Warren	21,410 32
Jackson	4,761 08	Washington	12,748 73
Jefferson	19,095 81	Wayne	23,307 18
Knox	16,554 79	Williams	7,769 93
Lake	10,092 70	Wood	9,642 63
Lawrence	8,431 20	Wyandot	10,741 07
Total			\$1,551,583 97

*From annual report of Auditor of State.

TABLE SHOWING THE AMOUNT OF TOWNSHIP AND SUB-DISTRICT SCHOOL, SCHOOL-HOUSE, AND ALL TAXES FOR SCHOOL PURPOSES, ASSESSED ON THE GRAND DUPLICATE BY TOWNS, TOWNSHIP, AND SUB-DISTRICT AUTHORITY FOR THE YEAR 1878.

Counties.	Amount.	Counties.	Amount.
Adams	\$27,944 33	Licking	\$71,708 82
Allen	51,355 98	Logan	46,484 64
Ashland	42,405 21	Lorain	67,505 11
Ashtabula	52,506 87	Lucas	140,720 23
Athens	29,222 63	Madison	46,279 55
Anglaize	36,006 73	Mahoning	54,892 28
Belmont	67,902 93	Marion	42,379 21
Brown	35,028 12	Medina	35,209 16
Butler	94,549 27	Meigs	34,877 10
Carroll	10,002 04	Mercer	25,487 92
Champaign	64,454 40	Miami	82,072 76
Clarke	93,779 00	Monroe	27,588 88
Clermont	66,653 55	Montgomery	169,208 42
Clinton	49,356 03	Morgan	30,940 41
Columbiana	68,469 03	Morrow	32,155 98
Coahocton	33,235 69	Muskingum	71,570 56
Crawford	51,827 16	Noble	26,575 37
Cuyahoga	361,407 92	Ottawa	32,363 83
Darke	65,966 78	Paulding	17,650 69
Defiance	32,311 40	Perry	37,520 80
Delaware	39,619 56	Pickaway	61,055 68
Erie	62,502 22	Pike	23,454 23
Fairfield	69,437 15	Portage	51,514 89
Fayette	57,446 18	Preble	50,921 30
Franklin	182,525 67	Putnam	30,475 10
Fulton	25,052 73	Richland	71,420 94
Gallia	25,369 76	Ross	69,253 76
Geauga	23,462 23	Sandusky	51,020 46
Greene	61,958 56	Scioto	56,312 28
Guernsey	49,282 40	Seneca	67,646 94
Hamilton	727,715 92	Shelby	52,208 12
Hancock	46,883 88	Stark	101,214 15
Hardin	41,202 27	Summit	69,779 63
Harrison	30,012 92	Trumbull	65,522 69
Henry	26,994 38	Tuscarawas	68,426 11
Highland	53,872 26	Union	44,367 51
Hocking	23,236 31	Van Wert	33,878 53
Holmes	27,836 48	Vinton	17,221 17
Huron	53,705 03	Warren	54,848 93
Jackson	20,374 94	Washington	52,715 48
Jefferson	54,060 74	Wayne	65,994 19
Knox	43,437 30	Williams	31,474 33
Lake	31,421 00	Wood	49,845 73
Lawrence	42,124 09	Wyandot	45,963 53
Totals			\$5,546,656 52

SUMMARY.

State tax for 1878 for State Common School Fund	\$1,551,583 97
Local taxes on Grand Duplicate for 1878 for schools and school-houses	5,546,656 52
Total	\$7,098,240 49

Table showing the payments of the State Common School Fund to counties, as compared with receipts, and exhibiting excess of payments or receipts, for fiscal year ending November 15, 1878; also, the enumeration of youth between six and twenty-one years of age, taken in the month of September, 1876, being the basis upon which the State Common School Fund is to be distributed in 1879.*

Counties.	Payments to counties.	Received from counties.	Excess of payments to counties.	Excess of receipts from counties.	No. of youth between 6 and 21 years.
Adams	\$12,354 00	\$5,893 16	\$6,460 84	.....	8,956
Allen	15,715 00	10,302 97	5,412 03	.....	10,228
Ashland	11,170 50	12,968 11	.....	\$1,797 61	7,461
Ashtabula	15,769 50	16,046 30	.....	276 80	10,389
Athens	14,723 50	7,339 82	6,383 68	.....	9,062
Auglaize	13,000 00	7,702 51	5,297 49	.....	9,371
Belmont	24,390 00	20,927 20	3,462 80	.....	16,479
Brown	16,068 00	11,168 84	5,799 16	.....	11,391
Butler	23,202 00	32,944 12	.....	9,742 12	15,481
Carroll	8,462 50	1,948 36	.....	6,514 14	5,524
Champaign	13,288 50	20,653 69	.....	7,365 39	8,962
Clarke	17,719 50	26,899 51	.....	9,180 01	12,081
Clermont	18,127 50	14,264 72	3,862 78	.....	11,916
Clinton	12,213 00	14,036 31	.....	1,823 31	8,270
Columbiana	21,445 50	22,797 29	.....	1,351 79	14,673
Coshocton	14,230 00	12,930 32	299 68	.....	8,936
Crawford	14,461 50	15,221 10	.....	759 60	9,591
Cuyahoga	24,612 00	68,248 64	.....	3,636 64	56,666
Darke	19,499 00	18,586 15	1,312 85	.....	13,175
DeKalb	10,693 50	5,773 81	4,919 69	.....	7,144
Delaware	12,624 00	16,215 70	.....	3,591 70	8,514
Erie	14,225 00	11,500 64	6,754 36	.....	12,657
Fairfield	17,454 00	17,894 88	.....	440 88	11,520
Fayette	9,679 50	13,662 04	.....	3,982 54	6,329
Franklin	37,993 00	49,543 11	.....	11,548 11	25,059
Fulton	10,327 50	5,194 66	5,132 84	.....	7,116
Gallia	14,997 00	7,651 55	7,345 45	.....	9,345
Geauga	5,487 50	8,040 99	.....	2,553 49	3,649
Greene	14,162 50	22,374 15	.....	8,211 65	9,492
Guernsey	14,914 00	10,316 19	3,597 81	.....	8,218
Hamilton	153,668 50	213,479 30	.....	59,810 80	110,503
Hancock	13,617 00	12,316 77	1,300 23	.....	9,294
Hardin	13,518 00	8,608 60	4,909 40	.....	9,283
Harrison	9,996 00	12,925 70	.....	2,929 70	6,753
Henry	10,746 50	4,328 81	6,417 69	.....	7,330
Highland	15,355 50	14,219 27	1,136 23	.....	10,229
Hocking	9,919 50	5,644 49	4,275 01	.....	6,753
Holmes	10,440 00	8,184 02	2,255 98	.....	7,125
Huron	16,045 50	17,818 54	.....	1,773 04	10,617
Jackson	12,226 50	4,835 14	7,391 36	.....	8,245
Jefferson	17,045 00	19,105 76	.....	2,020 76	11,591
Knox	12,309 00	16,620 61	.....	4,311 61	8,300
Lake	7,507 50	10,226 20	.....	2,718 70	5,135
Lawrence	19,584 50	8,232 93	11,351 57	.....	13,204
Licking	20,398 50	26,102 19	.....	5,703 69	13,415
Logan	12,667 50	13,763 15	.....	1,095 65	8,172
Lorain	16,168 00	17,307 25	.....	1,139 25	10,722
Lucas	29,495 00	21,923 46	7,571 54	.....	21,409
Madison	9,390 00	14,506 41	.....	5,116 41	6,333

TABLE SHOWING THE PAYMENTS OF THE STATE COMMON SCHOOL FUND—Continued.

Counties.	Payments to counties.	Received from counties.	Excess of payments to counties.	Excess of receipts from counties.	No. of youth between 6 and 21 years.
Mahoning	19,088 00	18,419 86	648 15	.....	12,912
Marion	9,603 00	13,197 16	.....	3,594 16	6,512
Medina	9,618 00	12,977 09	.....	3,359 09	6,436
Meigs	17,343 00	8,775 81	8,567 19	.....	11,444
Mercer	11,293 50	4,5 9 50	6,779 82	.....	7,591
Miami	18,319 50	21,526 89	.....	3,207 39	11,259
Monroe	14,883 00	6,784 80	9,097 20	.....	9,252
Montgomery	33,415 50	45,152 02	.....	11,736 52	22,517
Morgan	10,224 00	8,193 16	2,030 84	.....	6,920
Morrow	9,201 50	12,384 59	.....	3,187 09	6,007
Muskingum	24,426 00	2,906 17	.....	1,400 17	16,2 7
Noble	10,936 50	6,213 28	4,703 22	.....	7,631
Ottawa	9,508 50	6,182 58	4,325 94	.....	8,368
Paulding	6,545 50	2,142 34	4,393 16	.....	4,4 6
Perry	12,402 00	8,645 97	3,756 03	.....	8,234
Pickaway	13,651 50	19,376 69	.....	5,725 19	9,541
Pike	9,370 50	6,128 44	4,242 06	.....	6,322
Portage	11,553 50	16,248 54	.....	4,695 04	7,810
Preble	11,676 00	17,769 27	.....	6,093 27	7,911
Putnam	12,376 50	5,718 73	6,657 77	.....	8,305
Richland	17,115 00	21,974 56	.....	4,859 56	11,274
Ross	19,826 00	21,722 71	.....	2,096 71	13,371
Sandusky	15,093 00	13,219 51	1,873 49	.....	9,8 8
Scioto	17,962 50	10,841 36	7,121 14	.....	11,5 4
Seneca	18,246 00	18,238 30	7 70	.....	12,1 1
Shelby	12,544 50	9,738 65	2,805 85	.....	8,276
Stark	30,793 50	13,951 01	16,845 49	.....	20,6 6
Summit	18,961 50	22,117 58	.....	3,156 08	12,908
T. umbull	20,565 00	20,059 27	505 73	.....	14,006
Tuscarawas	19,969 50	16,573 47	3,396 03	.....	13,403
Union	10,552 50	10,419 41	133 09	.....	7,0 3
Van Wert	11,829 00	5,929 33	5,900 67	.....	6,0 9
Vinton	9,087 00	3,962 67	5,124 33	.....	6,0 9
Warren	13,660 00	21,692 36	.....	8,032 36	8,156
Washington	22,899 00	12,901 86	9,997 14	.....	15,301
Wayne	20,317 50	23,204 89	.....	2,887 39	13,642
Williams	11,940 00	7,606 36	4,333 64	.....	7,4 3
Wood	16,825 50	9,573 08	7,252 42	.....	11,219
Wyandot	10,869 00	10,346 39	522 61	.....	7,418
Totals	\$1,540,348 50	\$1,524,389 39	\$234,112 26	\$218,153 17	1,041,963

*From Auditor of State's Report.

TABLE SHOWING THE AGGREGATE NET AMOUNT OF DEBTS OF ALL SEPARATE SCHOOL DISTRICTS IN THE STATE, AS REPORTED TO THE AUDITOR OF STATE.

Counties.	Debts of school dis- tricts.	Counties.	Debts of school dis- tricts.
Adams		Licking	
Allen	\$45,000 00	Logan	\$44,539 08
Ashland	2,200 00	Lorain	35,900 00
Ashtabula		Lucas	
Athens		Madison	
Auglaize	44,400 00	Mahoning	13,900 00
Belmont	28,854 02	Marion	4,749 08
Brown		Medina	1,500 00
Butler	43,183 01	Meigs	4,150 00
Carroll		Mercer	
Champaign	77,150 00	Miami	6,845 00
Clarke	31,000 00	Monroe	
Clermont	6,252 30	Montgomery	3,034 70
Clinton		Morgan	
Columbiana	35,800 00	Morrow	9,300 00
Coshocton	7,000 80	Muskingum	28,742 00
Crawford	12,350 00	Noble	2,600 00
Cuyahoga		Ottawa	16,800 00
Darke	38,850 00	Paulding	14,278 00
Defiance	13,365 62	Perry	11,658 55
Delaware	3,600 00	Pickaway	
Erie	49,314 00	Pike	
Fairfield	17,278 37	Portage	11,700 00
Fayette		Preble	3,358 00
Franklin	3,339 62	Putnam	1,000 00
Fulton	10,000 00	Richland	11,050 00
Gallia		Ross	
Geauga	18,160 00	Sandusky	8,200 00
Greene	3,688 74	Scioto	49,400 00
Guernsey	31,500 00	Seneca	1,400 00
Hamilton	6,263 32	Shelby	
Hancock	2,900 00	Stark	62,128 43
Hardin		Summit	23,561 00
Harrison	1,850 00	Trumbull	9,100 00
Henry	25,000 00	Tuscarawas	58,381 20
Highland	34,295 15	Union	26,233 42
Hocking		Van Wert	13,000 00
Holmes		Vinton	
Huron		Warren	3,000 00
Jackson		Washington	16,789 60
Jefferson	6,386 34	Wayne	27,313 82
Knox		Williams	9,000 00
Lake		Wood	20,700 00
Lawrence	1,700 00	Wyandot	4,075 77
Total			\$1,158,098 14

MATTERS RELATING TO OHIO SCHOOLS.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY J. J. BURNS,
Commissioner of Common Schools.

In social arithmetic, if we give the soil and climate, navigable waters, and beds of minerals, and then demand what kind of *homes* the country will afford, we shall ask an *indeterminate* problem. Some essential *conditions* are not given. Among these conditions should be classed not only the educational standing of the people as a whole, and the school system or code of laws written and unwritten, but the actual status of the schools as a result. The chief duty of a generation of men is to properly train up the succeeding generation, even as it is the chief duty and a heaven-born inclination of parents to properly train their children. And if it were not for this duty, acted upon till it is part of man's moral nature, it would be hardly worth while to undertake any great labors, to give place to any wearing anxieties. But, while life is short, society is long. Men may come and men may go, but society remains forever—an edifice whose foundations were laid when it was found not good for man to be alone. Each generation adds a story, solid and beautiful, polished in the similitude of a palace; or unsteady and shapeless, daubed with untempered mortar.

I have simply hinted at a social problem and shall not try to solve it, nor even to name all its conditions. In the limits of this paper I shall aim to outline the school system of Ohio, and give some statistics as a sort of index of the practical workings of the schools.

To carry any system into operation, whether political, religious, or what not, a division of territory into manageable units is necessary. For school purposes these units are called districts, and are styled city districts, village districts, special districts and townships. The city districts are usually divided into smaller divisions corresponding to the wards, and the townships are divided into sub-districts. Each of these districts is under the control of a board of education, which is made a body corporate, and with duties defined by statute. The board is the

proper trustee of the school buildings. By it land is purchased, houses built, a school tax levied, pupils assigned, and numerous other duties performed. Teachers are employed by the board, except that in the case of township districts, they are selected by the local directors of the respective sub-districts.

The following are some items relative to this branch of the subject :

Number of districts in the State.....	1,998
“ sub-districts in townships.....	10,769
“ school-houses in township districts.....	10,791
“ “ other districts	1,188
“ school-houses erected within the year.....	481
Cost of school-houses erected within the year.....	\$843,822
Estimated value of school-houses including grounds	\$21,329,864
Number of teachers necessary to supply the schools	16,092
“ different teachers actually employed.....	23,391
Average number of weeks schools were in session.....	35
Number of pupils enrolled in the schools	740,194
Average number in daily attendance.....	465,372
Number of youth of school age in the State.....	1,041,963

One who peruses the history of the early days in Ohio, is struck with the earnestness with which the fathers began to carry out that famous provision, that since “religion, morality, and knowledge are essentially necessary to good government and the happiness of mankind, schools and the means of education shall forever be encouraged.” It was, doubtless, their intention to so endow the schools that they should be absolutely *free* schools, but bad management on the part of those in charge of the public lands, and in many cases the real worthlessness of the lands themselves, defeated this intention. Taxes for school purposes are the result, the first mention of which in Ohio statutes is found in the law of 1821. This was the first general school *law*. It is easy to see how there might be provision made for the support of schools, long before there was any law by virtue of which the schools themselves should be established.

But let us look at the present school revenues and their sources :

Total receipts, including balance on hand September 1, 1877.....	\$11,488,821 09
Total expenditures	7,995,125 45
Receipts from interest on irreducible funds, as reported by Auditor of State.....	223,449 33
From rents and accrued interest on deferred payments due on sale of school lands.....	6,568 23
From State school tax (one mill on each dollar of taxable property)	1,531,081 37
From local taxes	5,497,867 15
Omitting some minor sums, we find total receipts.....	\$7,841,911 42

EXPENDITURES.

Amount paid teachers in primary schools.....	\$4,509,733 67
“ “ “ high schools	446,780 79
Total paid teachers.....	\$4,956,514 46
Amount paid for superintending schools.....	\$185,850 40

Including amounts for building sites, interest on and redemption of bonds, fuel, and other contingent expenses, there is as a grand total of expenditures, \$7,995,125.45.

ENUMERATION OF YOUTH.

Whole number of white youth of school age.....	1,018,789
“ “ colored “ “	23,174
Whole number of youth of school age.....	1,041,963

The number of unmarried youth between 16 and 21 years of age in September, 1878, as shown by the enumeration returns, is 272,960. This leaves 769,003 youth in the State between 6 and 16 years of age.

About twenty-five per cent. of the unmarried youth of school age is between the ages of 16 and 21, if we rely upon the average of the last six years. The number seems, however, on the increase—from 23+ to 26+. Is there a steadily increasing number of deaths among children over six, or a steadily decreasing number of marriages among children under twenty-one?

SCHOOL OFFICERS.

When we come to examine the lists of those to whom are confided some duties relating to our schools, we find their name to be legion.

Local directors in sub-districts	32,307
Township clerks, as clerks of township boards of education.....	1,347
Township treasurers, as treasurers of township boards of education.....	1,347
Members of city, village, and special district boards (probable)	4,080
County examiners of teachers.....	264
City and village district examiners (probable).....	500
State examiners	3
Probate judges, whose school duties are to appoint and remove the county examiners, and, upon petition, to constitute a commission as a court of appeal in matters of new districts and district boundary lines.....	88
County auditors, who are the special guardians of the school funds.....	88
Prosecuting attorneys, who are <i>ex officio</i> counsel for the school boards....	88

AVERAGE MONTHLY WAGES OF TEACHERS.

In township district primary schools—gentlemen, \$36; ladies, \$24. In township district high schools—gentlemen, \$67; ladies, \$42. (It may be remarked that high schools in township districts are exceedingly rare.) In city, village, and special district primary schools—gentlemen, \$59

ladies, \$41. In city, village, and special high schools—gentlemen, \$74; ladies, \$59.

AVERAGE NUMBER OF WEEKS THE SCHOOLS WERE IN SESSION.

Primary schools in townships	28 weeks.
Primary schools in city, village, and special districts	37 "
High schools in townships	38 "
High schools in city, village, and special districts	38 "

AVERAGE RATE OF LOCAL TAX.

Average number of mills on each dollar in township districts	3.20
Average number of mills on each dollar in city, village, and special district ...	

PERCENTAGES OF ATTENDANCE.

Per cent. of average daily attendance on the enrollment in township districts	60.09
Per cent. of average daily attendance on enrollment in city, village, and special districts	71.80
Per cent. of average daily attendance on the enrollment in the State	64.16

Teachers are commissioned for their work by passing an examination conducted by a county board of examiners, who can issue a certificate good in the county; by a city or village board—the village must have a population of 2,500 to be entitled to a special board—good in the city or village; or by the State Board, good throughout the State, and for life unless revoked for cause.

The system of examining teachers, or rather of licensing them, would be greatly improved by any change which would make actual success in the school-room a controlling element. Sound scholarship is essential to success, especially in the higher grades, but there are other essentials which our modes of testing do not test, and which nothing else than actual inspection of work done can test.

It is not necessary to give the statistics of examining boards in this place. A number of persons are furnished with certificates and thus made legal teachers, each year much larger than the number of school-rooms, and not only are the "lower stories" crowded, but the *upper stories* seem to be in the same condition.

The means whereby teachers are prepared for their calling are mainly the district schools themselves, the so-called normal or training schools, the high schools of the cities and villages, and the various colleges. In each case the instruction of the school is supplemented by attendance at the county institute on the part of the better class of teachers.

In each county will be found a number of teachers who seem awake to the claims of their profession upon them. They show this by their

attendance at educational meetings, and by their inquiring spirit while there. They also read educational journals, in order to improve their ideal of what a school should be, to "keep up to the times," as we say in other affairs. In the proportion that this class form a large or a small part of the teachers of the county, these schools are forward or backward. But as I intimated just now, teachers will be qualified and schools progressive when the local public so desire.

SECONDARY INSTRUCTION.

A full discussion of the high-school question would not come under the scope of this paper, but it does so come to state that the law has left the course of study to boards of education, who immediately represent the people. If, then, the people do not desire anything beyond an eight years' course, they can say so, and have their will carried out.

The true theory seems to be for the people here to have the exercise of the same right which they enjoy in certain other matters. We pride ourselves in home or neighborhood liberty. In our counties the people can choose commissioners who will build bridges over the streams, or they may select such commissioners as will not thus tax their constituents, and the good people can stay at home till the waters go down, or wade.

Our city councils may think it wise to tax the public and light up the streets. This may be done wisely or foolishly. But the remedy should hardly be for the State in its sovereignty to enter the corporation and overturn the whole system of street lighting, thereby leaving the people in darkness. In my opinion the power to determine the number of years in the school course and the studies to be pursued is wisely left with the people of the various districts.

This legal status is neatly stated in the report of the French Educational Commission on public instruction in the United States: "The law simply establishes as a principle the necessity of public instruction, leaving it to each community to provide for its own needs in its own way."

In the course of an exhaustive argument affirming the constitutionality of certain sections of our school law, and the legality of the action of school boards based thereon, Hon. Isaiah Pillars, Attorney-General of Ohio, said: "It has long been a settled maxim in Ohio, founded on the wisest public policy, 'that the property of a State should educate the children of the State.' This does not mean that they should have the advantages of a free education in the common branches alone, but in whatever goes to constitute education."

COMPULSORY EDUCATION.

Concerning the *right* of a State or government to pass and carry into effect what are known as compulsory education laws, and require parents and guardians, even against their will, to send children to school, there does not appear to be much diversity of opinion. Concerning the policy thereof dependent upon so many known and unknown conditions, there is the widest diversity. I can write no history of the results of the act of March 20, 1877, for it does not seem to have had any.

A great good would be wrought if the wisdom of the General Assembly could devise some means which shall strengthen or supplement the powers of boards of education, and enable them to prevent truancy, even if only in cases where parents desire their children to attend school regularly, but parental authority is too weak to secure that end. The instances are not few in which parents would welcome aid in this matter, knowing that truancy is often the first step in a path leading through the dark mazes of idleness, vagabondage, and crime.

Whatever may be said of young children's working in mills and factories, youthful idlers upon the streets of our towns and cities should be gathered up by somebody and compelled to do something. If they learn nothing else, there will be at least this salutary lesson, that society is stronger than they, and, without injuring them, will use its strength to protect itself.

While we are establishing reform schools for those who have started on the way to their own ruin, and have donned the uniform of the enemies of civil society, it would be a heavenly inspiration to provide some way to rescue those who are yet only lingering around the camp.

JUDICIAL STATISTICS,

AS REPORTED BY CLERKS OF COURTS.

FINES, COSTS, AND FORFEITED RECOGNIZANCES IN CRIMINAL CASES, FOR THE YEAR ENDING JUNE 30, 1878.*

Counties.	Fines.			Costs.			Forfeited recognizances.		
	Amount assessed.	Amount collected.	Amount probably collectible.	Total costs taxed.	Amount taxed against defendants.	Amount collected from defendants.	Amount forfeited.	Amount collected.	Amount collectible.
Adams	\$305	\$20	\$35	\$350	\$350	\$71	\$2,100	\$450	\$1,600
Allen	125	40	25	1,501	1,346	7	200	.....	200
Ashland	720	140	40	981	981	123	.....	.....	.....
Ashland .....	.....	.....	170	2,410	2,149	164	.....	.....	.....
Ashland .....	.....	.....	.....	81	9	.....	.....	.....	.....
Ashland	251	68	50	1,050	533	94	100	.....	.....
Belmont	450	213	.....	2,032	1,092	42	700	700	.....
Brown	255	50	60	3,829	4,476	104	.....	.....	.....
Butler	685	77	420	2,623	2,284	384	.....	.....	.....
Carroll	20	10	10	205	200	31	200	200	.....
Champaign	1,345	617	.....	3,609	2,355	755	50	.....	50
Clarke	2,757	2,397	25	2,615	2,200	1,242	.....	.....	.....
Clermont	95	50	45	107	108	87	.....	.....	.....
Clinton	771	484	93	2,009	694	476	.....	.....	.....
Columbiana	1,850	1,045	.....	3,744	3,042	902	.....	.....	.....
Coshocton	544	133	64	2,945	2,721	177	.....	.....	.....
Crawford	15	10	.....	1,024	853	96	.....	.....	.....
Cuyaboga	570	35	.....	15,842	7,668	355	14,050	.....	.....
Darke	900	269	540	608	804	370	1,330	250	600
Defiance	40	20	.....	1,475	611	13	.....	.....	.....
Delaware	85	6	.....	2,558	3,356	44	100	100	.....
Erie	30	.....	20	5,985	4,771	4,492	200	.....	.....
Fairfield	126	.....	21	3,170	3,170	42	.....	.....	.....
Fayette	170	100	.....	697	.....	13	500	.....	500
Franklin	373	125	150	6,269	3,103	378	1,600	.....	1,600
Fulton	55	43	.....	1,154	612	68	75	.....	75

Galla	701	165	96	836	836	29	700	.....	.....
Geanga	250	75	100	1,504	806	27	200	.....	100
Greene	670	310	60	2,218	1,958	300	.....	.....	.....
Guernsey	1,042	182	300	2,640	2,640	230	500	350	.....
Hamilton	760	.....	125	.....	.....	.....	19,300	.....	.....
Hancock	55	40	55	539	214	72	.....	.....	.....
Hardin	430	380	.....	1,349	218	492	.....	.....	.....
Harrison	255	90	.....	490	98	153	600	600	.....
Henry	10	.....	.....	889	664	.....	.....	.....	.....
Highland	300	10	75	551	372	.....	.....	.....	.....
Hocking	20	15	.....	2,599	3,312	42	.....	.....	.....
Holmes	270	185	85	52	52	40	.....	.....	.....
Huron	1,057	.....	683	1,116	.....	119	300	300	.....
Jackson	1,245	200	595	3,247	2,741	78	.....	.....	.....
Jefferson	1,550	401	330	838	486	32	1,400	.....	500
Knox	515	42	270	444	444	74	.....	.....	.....
Lake	40	40	.....	1,371	923	99	.....	.....	.....
Lawrence	333	23	165	2,317	1,532	61	200	.....	200
Licking	710	40	290	2,397	1,484	166	600	.....	500
Logan	946	231	.....	2,183	2,183	320	.....	.....	.....
Lorain	1,415	1,014	135	1,786	171	676	1,300	1,300	.....
Lucas	325	75	100	3,519	2,185	253	3,800	.....	3,800
Madison	500	345	130	1,371	1,371	251	.....	.....	.....
Mahoning	780	415	110	6,683	4,183	331	1,100	500	.....
Marion	151	5	56	823	183	14	300	.....	.....
Medina	330	270	.....	1,506	1,306	356	.....	.....	.....
Meigs	398	107	25	1,534	787	105	.....	.....	.....
Mercer	205	25	.....	1,487	1,318	.....	.....	.....	.....
Miami	1,890	625	875	2,291	2,291	294	500	340	.....
Monroe	140	90	10	374	374	204	.....	.....	.....
Montgomery .....	.....	.....	.....	3,322	3,322	224	.....	.....	.....
Morgan	350	200	.....	463	463	142	.....	.....	.....
Morrow	205	170	.....	710	710	108	.....	.....	.....
Muskingum	270	30	30	1,463	1,059	55	1,300	500	800
Noble	71	10	25	416	416	1	.....	.....	.....
Ottawa	235	180	45	1,001	834	231	.....	.....	.....
Paulding	25	5	.....	506	81	34	.....	.....	.....
Perry	26	15	11	1,406	1,406	.....	.....	.....	.....
Pickaway	110	40	.....	356	356	14	.....	.....	.....
Pike	430	80	65	325	325	14	.....	.....	.....
Portage	600	175	290	981	981	189	.....	.....	.....
Preble	375	180	85	203	165	95	300	.....	300

FINES, COSTS, AND FORFEITED RECOGNIZANCES IN CRIMINAL CASES--Continued.

Counties.	Fines.			Costs.			Forfeited recognizances.		
	Amount assessed.	Amount collected.	Amount probably collectible.	Total costs taxed.	Amount taxed against defendants.	Amount collected from defendants.	Amount forfeited.	Amount collected.	Amount collectible.
Putnam.....	\$420	.....	\$285	\$1,734	\$1,556	\$5	.....	.....	.....
Richland.....	55	\$15	.....	77	77	36	.....	.....	.....
Ross.....	245	125	40	762	762	104	\$250	.....	.....
Sandusky.....	100	100	.....	147	147	.....	.....	.....	147
Scioto.....	565	5	305	1,915	1,915	1,531	.....	.....	.....
Seneca.....	208	105	6	1,099	450	37	.....	.....	.....
Shelby.....	12	11	1	880	588	.....	1	\$1	.....
Stark.....	576	190	.....	4,284	3,032	102	2,800	.....	\$2,800
Summit.....	915	265	445	4,138	2,148	442	200	31	.....
Trembail.....	950	240	.....	1,760	1,450	311	600	.....	200
Tuscarawas.....	1,925	320	1,140	328	320	72	.....	.....	.....
Union.....	754	793	.....	1,773	942	797	200	.....	.....
Van Wert.....	25,479	10	.....	825	825	138	.....	.....	.....
Vinton.....	240	10	10	935	819	27	1,000	.....	1,000
Warren.....	1,034	125	190	1,809	1,009	266	.....	.....	.....
Washington.....	594	395	60	2,958	2,058	172	1,058	58	100
Wayne.....	200	100	.....	4,039	2,797	126	100	.....	100
Williams.....	262	261	.....	385	385	385	.....	.....	.....
Wood.....	1	.....	1	1,250	745	54	.....	.....	.....
Wyandot.....	81	35	.....	1,526	1,041	.....	500	.....	500
Totals.....	\$67,167	\$16,500	\$9,552	\$103,158	\$116,994	\$20,903	\$603,145	\$5,880	\$15,672

* Fractions omitted.

CIVIL JUDGMENTS FOR THE YEAR ENDING JUNE 30, 1878.

Counties.	Number rendered.	Number for money only.	Other judgments in which money is included.	Amount adjudged due.	Average amount of each judgment.	Number of decrees.
Adams	83	83	-----	\$62,878	\$758	21
Allen	186	179	7	38,908	209	48
Ashland	214	146	68	80,250	375	68
Ashtabula	188	114	74	158,374	842	31
Athens	134	97	13	99,509	905	37
Auglaize	138	88	50	62,690	454	30
Belmont	248	198	19	204,378	942	121
Brown	322	227	46	101,835	373	48
Butler	378	277	101	281,618	648	101
Carroll	204	136	34	118,379	596	45
Champaign	301	267	34	216,024	718	170
Clark	388	329	59	228,059	588	55
Clermont	347	237	110	205,615	593	27
Clinton	332	209	20	212,063	926	103
Columbiana	161	70	91	109,276	679	101
Coshocton	214	196	18	139,894	654	29
Crawford	146	81	65	127,509	873	3
Cuyahoga	2,235	1,399	655	2,554,320	1,143	181
Darke	304	189	53	146,090	603	102
Defiance	237	140	97	111,919	472	-----
Delaware	280	280	-----	196,308	701	155
Erie	161	80	73	143,217	936	100
Fairfield	348	257	60	187,000	590	31
Fayette	500	430	-----	455,510	1,059	70
Franklin	1,187	539	255	1,036,810	1,306	272
Fulton	161	144	15	56,478	355	19
Gallia	129	76	53	61,558	477	26
Geauga	60	42	18	61,866	1,031	18
Greene	378	305	73	178,425	472	54
Guernsey	240	73	86	76,366	480	81
Hamilton	2,078	918	-----	1,286,111	1,401	1,269
Hancock	175	112	63	74,563	426	97
Hardin	281	142	139	142,482	507	116
Harrison	183	138	45	153,226	837	20
Henry	270	142	128	89,015	330	128
Highland	132	105	27	71,716	643	6
Hocking	98	59	39	68,000	694	41
Holmes	202	62	24	44,590	518	33
Huron	160	81	79	79,945	450	59
Jackson	123	58	22	110,564	1,382	43
Jefferson	177	86	-----	167,877	1,952	91
Knox	211	135	-----	139,749	1,035	76
Lake	134	46	88	157,042	1,172	42
Lawrence	254	63	74	136,562	997	47
Licking	372	82	290	208,505	560	87
Logan	200	200	-----	97,382	487	58
Lorain	189	62	69	122,118	932	58
Lucas	2,080	1,188	779	1,541,848	784	113
Madison	147	147	-----	74,700	508	8
Mahoning	244	164	-----	266,376	1,624	80
Marion	157	85	60	86,000	594	15
Medina	149	85	43	108,997	852	64
Meigs	143	126	17	153,343	1,072	16
Mercer	110	86	24	50,394	458	29
Miami	245	216	-----	184,833	856	43
Monroe	134	53	79	70,219	532	2
Montgomery	1,097	691	406	505,637	461	203

CIVIL JUDGMENTS FOR THE YEAR ENDING JUNE 30, 1878—Continued.

Counties.	Number rendered.	Number for money only.	Other judgments in which money is included.	Amount adjudged due.	Average amount of each judgment.	Number of decrees.
Morgan	80	80	-----	37,650	471	13
Morrow	89	62	27	50,826	571	37
Muskingum	232	139	93	194,825	840	269
Noble	195	123	47	116,701	686	23
Ottawa	204	70	92	81,322	502	42
Paulding	76	31	45	24,806	326	57
Perry	339	271	68	174,715	515	24
Pickaway	620	350	110	144,670	314	220
Pike	77	62	15	25,719	334	20
Portage	164	85	79	115,521	704	60
Preble	122	79	-----	64,467	816	23
Putnam	211	100	111	71,111	337	31
Richland	288	152	92	148,209	607	92
Ross	327	149	-----	187,576	1,259	49
Sandusky	120	58	2	69,772	1,163	20
Scioto	191	113	78	120,158	629	31
Seneca	272	171	101	177,826	654	107
Shelby	216	157	21	75,931	427	38
Stark	536	536	-----	461,655	861	78
Summit	476	185	71	237,980	930	110
Trumbull	710	280	130	120,169	169	130
Tuscarawas	161	81	80	126,679	787	17
Union	254	189	65	117,176	462	23
Van Wert	233	215	18	104,237	447	421
Vinton	92	57	35	61,386	667	32
Warren	264	150	114	353,049	1,337	269
Washington	172	113	59	52,873	307	19
Wayne	296	165	131	165,160	558	25
Williams	122	80	42	64,686	532	56
Wood	314	180	134	156,435	498	211
Wyandot	404	210	92	110,025	364	102
Total	27,866	17,213	6,694	\$17,918,235	\$61,896	\$7,645

PROSECUTIONS FOR CRIMES AGAINST THE PERSON, FOR THE YEAR ENDING JUNE 30, 1974.

[illegible]

[illegible]

PROSECUTIONS FOR CRIMES AGAINST THE PERSON—Continued.

[illegible]

PROSECUTIONS FOR CRIMES AGAINST THE PERSON—Continued.

County.	Sent to Reform School.		Acquittal.		Total cases disposed of.		Failure to arrest.		Escape.		Trial not commenced.		Trial commenced and continued.		Total still pending.		Defendant's counsel paid by county.		Amount paid defendant's counsel by county.		No of crimes probably committed under the existing liquor.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.
Warten	11	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Washington	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wayne	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Williams	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wood	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wyandot	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totals	11	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

* Not reported.

† Sent to work-house.

‡ One case transferred to another county included.

PROSECUTIONS FOR OFFENSES AGAINST PROPERTY, AND RESULTS FOR THE YEAR ENDING JUNE 30, 1913.

County.	Indictments pending July 1, 1876, and persons included.		Indictments found within the year, and persons included.		Totals.		Terminated by death.		Indictments quashed, laid away, etc.		Not prosecuted entered.		Improvements in the county jail only.		Fines only.		Fines and improvements in county jail.		Restitution only.		Restitution and impropriety in county jail.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.		
Adams	14	2	66	23	80	25	57	1	1	4	3	1	1	5	1	3	1	3	1	1	1	
Allen	2	2	4	10	6	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	6	4	8	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ashland	2	2	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

[illegible]

* Imprisonment in workhouse.

PROSECUTIONS FOR CRIMES AGAINST PROPERTY, AND RESULTS—Continued.

Counties.	Restitution and fine.		Sent to Reform School.		Acquitted.		Total.		Failure to arrest.		Escape.		Trial not commenced.		Trial commenced and continued.		Total.		Defendant's counsel paid by county.		Amount paid defendant's counsel by county.		Crimes probably committed under the influence of intoxicating liquor.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.			No. indictments.	No. persons.
Vinton	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$30 00	1	1	1
Warren	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	145 00	1	1	1
Washington	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	165 00	1	1	1
Wayne	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	445 00	1	1	1
Williams	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50 00	1	1	1
Wood	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	70 00	1	1	1
Wyandot	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	95 00	1	1	1
Totals	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	\$9,650 00	105	136	136

† Sent to Workhouse.

* Not reported.

[illegible]

Montgomery	28	38	19	15	44	47	51	5	107	226	705	783	21	29	35	38	1	1	83	91	105	12
Moran	.....	.....	17	9	17	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Muskegon	4	7	10	53	14	37	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Noble	.....	.....	5	19	18	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ottawa	.....	.....	8	8	9	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Paiding	.....	.....	4	4	4	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Perry	.....	.....	4	4	4	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pickaway	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pile	6	13	13	22	31	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Portage	8	9	59	59	81	85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Proble	1	1	24	34	34	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Putnam	.....	.....	22	31	33	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Richard	.....	.....	1	1	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ross	18	18	4	4	16	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sandusky	.....	.....	3	4	4	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Scioto	8	8	15	18	18	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seneca	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Shelby	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stark	.....	.....	4	10	10	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Summit	.....	.....	3	30	31	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Trumbull	41	59	65	73	109	130	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tuscarawas	.....	.....	4	9	61	76	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Union	16	16	100	93	116	109	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Van Wert	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vinton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Warren	6	8	7	5	13	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Washington	5	5	28	28	33	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wayne	7	7	16	20	23	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Williams	.....	.....	7	19	32	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wood	.....	.....	10	17	18	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wyandot	.....	.....	3	4	7	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	714	545	2371	2359	3085	2997	51	5	107	226	705	783	21	29	35	38	1	1	83	91	105	12

ATTORNEYS FEES IN CRIMINAL CASES PAID BY COUNTY, FOR THE YEAR ENDING JUNE 30TH, 1878, AS REPORTED BY COUNTY AUDITORS.

Counties.	No.	Amount.	Counties.	No.	Amount.
Adams	7	\$315	Licking	29	\$1,010
Allen	15	450	Logan	6	305
Ashland	10	150	Lorain	3	61
Ashtabula	11	705	Lucas	34	866
Athens	12	215	Madison	8	394
Auglaize	5	185	Mahoning	21	570
Belmont	6	210	Marion	3	85
Brown	10	205	Medina	2	50
Butler	15	320	Meigs	4	50
Carroll	3	150	Mercer	4	110
Champaign	9	215	Miami	22	395
Clark	11	245	Monroe	2	80
Clermont	5	115	Montgomery	22	871
Clinton	15	485	Morgan	4	160
Columbiana	12	500	Morrow	9	220
Coshocton	11	1,000	Muskingum .....	.....	.....
Crawford	7	300	Noble	4	180
Cuyahoga	71	800	Ottawa	9	74
Darke	16	583	Paulding .....	.....	.....
Defiance	1	40	Perry	8	375
Delaware	8	235	Pickaway	3	155
Erie	12	333	Pike	5	135
Fairfield	6	270	Portage	3	120
Fayette .....	.....	.....	Preble	10	255
Franklin	20	1,000	Putnam	1	55
Fulton	1	25	Richland*	11	220
Gallia	32	675	Ross	9	655
Geauga	3	175	Sandusky	13	410
Greene	18	350	Scioto	20	650
Guernsey	10	440	Seneca	2	50
Hamilton	122	1,827	Shelby	4	240
Hancock	2	215	Stark †	23	735
Hardin	6	95	Summit	12	200
Harrison	4	100	Trumbull	8	470
Henry	9	225	Tuscarawas	9	105
Highland	9	275	Union	5	120
Hocking	1	25	Van Wert .....	.....	.....
Holmes	1	200	Vinton	6	200
Huron	21	455	Warren	9	270
Jackson	16	420	Washington	13	275
Jefferson	14	145	Wayne	12	445
Knox	8	610	Williams	5	190
Lake	6	200	Wood	5	80
Lawrence	11	115	Wyandot	9	265
Totals				978	\$27,854

* Number not reported. Estimated from report of Clerk of Courts.

† Number estimated. Not reported by Auditor or Clerk of Courts.

SOCIAL STATISTICS

AND

STATISTICS OF BENEVOLENT AND REFORMATORY INSTITUTIONS.

SOCIAL STATISTICS.

TABLE SHOWING THE NUMBER OF MARRIAGES AND BIRTHS IN EACH COUNTY, AS REPORTED BY PROBATE JUDGES, FOR THE YEAR ENDING MARCH 31, 1874.

Counties.	Marriages.					Births.					
	White.		Colored		Total.	White.		Colored		Sex unknown.	Total number of births.
	By license.	By banns.	By license.	By banns.		Males.	Females.	Males.	Females.		
Adams	235	..	3	...	238	309	293	3	5	...	610
Allen	272	15	1	...	288	441	360	12	1	...	814
Ashland	205	...	...	...	206	221	214	...	1	38	474
Ashtabula	300	...	1	...	301	291	312	2	2	...	607
Athens	255	...	9	...	264	357	292	16	...	...	672
Auglaize	214	9	...	...	223	346	329	...	...	...	674
Belmont	313	...	11	...	324	517	512	25	21	...	1,075
Brown	264	...	...	...	264	348	341	20	22	...	719
Butler	316	...	12	...	328	345	328	...	...	...	673
Carroll	132	...	...	...	132	182	184	1	...	...	367
Champaign	246	...	11	...	257	273	241	10	2	5	531
Clark (a)	324	...	...	...	324	332	332	19	26	...	665
Clermont	253	5	9	...	267	336	329	13	15	23	716
Clinton	247	...	12	...	259	242	230	13	6	...	491
Columbiana	318	...	...	...	318	553	511	4	4	...	1,165
Coshocton	220	...	...	...	220	305	275	...	...	2	582
Crawford	260	5	1	...	266	405	366	2	4	...	777
Cuyahoga	1,147	82	...	...	1,229	1,913	1,755	13	8	...	3,669
Darke	334	...	...	...	334	495	501	3	6	...	1,005
Defiance	195	3	2	...	200	234	298	1	...	...	583
Delaware	239	...	4	...	243	214	223	8	5	...	450
Eric	243	...	...	...	243	326	265	3	1	10	605
Fairfield	253	...	...	...	253	338	339	5	3	...	686
Fayette	167	...	10	...	177	269	226	15	21	10	541
Franklin	707	1	...	...	708	663	626	15	15	3	1,322
Fulton	121	9	...	...	130	227	200	...	...	4	431
Gallia	269	...	26	...	295	327	290	31	32	...	690
Geauga	131	...	...	...	131	143	111	...	...	...	254
Greene (a)	267	...	...	...	267	263	282	22	35	3	606
Guernsey	200	...	6	...	206	238	255	6	3	...	502
Hamilton	2,346	132	106	...	2,580	3,519	3,500	300	306	...	7,686
Hancock	275	...	...	...	275	353	338	...	...	...	691
Hardin	267	2	16	...	285	305	330	6	1	...	642
Harrison	146	...	5	...	151	191	180	13	12	...	396
Henry	140	5	...	...	145	240	202	...	...	...	442
Highland	259	...	4	...	263	312	295	11	17	...	636
Hocking	176	...	3	...	179	303	294	4	4	...	605
Holmes	166	...	...	...	166	244	237	...	...	...	481
Huron	244	1	2	...	247	323	277	3	1	...	603
Jackson	164	...	6	...	170	328	302	11	11	...	662
Jefferson	203	...	7	...	210	286	265	7	15	3	566

NUMBER OF MARRIAGES AND BIRTHS—Continued.

Counties.	Marriages					Births					
	White.		Colored		Total.	White.		Colored		Sex unknown	Total number of births.
	By license.	By bans	By license.	By bans.		Males.	Females.	Males.	Females.		
Knox	270	...	1	...	271	243	224	...	2	...	469
Lake	104	...	...	...	104	137	106	...	...	...	243
Lawrence	327	...	19	...	346	325	527	12	13	...	853
Licking	366	...	1	...	367	434	375	1	1	...	811
Logan	216	...	6	...	222	282	248	6	11	...	547
Lorain	317	20	...	...	337	317	336	16	14	...	653
Lucas	462	32	...	...	494	862	739	8	2	...	1,611
Madison	152	...	2	...	160	181	176	13	10	...	350
Mahoning	202	15	2	...	219	477	415	5	2	1	900
Marion	173	...	...	...	173	212	237	3	2	2	454
Medina	191	...	...	...	194	228	300	...	...	...	428
Meigs	296	...	14	...	310	424	354	22	16	...	816
Mercer	121	30	...	...	151	291	249	...	...	...	540
Miami	272	1	10	...	283	326	303	2	7	...	638
Monroe	235	1	...	...	236	359	319	1	1	...	680
Montgomery	633	...	11	...	644	863	808	21	18	...	1,710
Morgan	171	...	...	...	171	238	248	...	...	...	486
Morrow	178	...	...	...	178	188	148	2	...	59	397
Muskingum	371	...	8	...	379	491	441	4	4	...	940
Noble (a)	199	...	...	...	199	270	287	1	...	...	558
Ottawa	133	...	...	...	133	174	192	...	...	...	366
Paulding	86	...	3	...	89	173	141	5	12	...	331
Perry	183	...	...	...	183	301	278	...	...	...	582
Pickaway	190	...	2	...	192	275	264	15	13	4	571
Pike	168	...	...	...	168	268	248	9	6	...	531
Portage	221	...	...	...	221	200	211	...	...	...	411
Preble	192	...	9	...	201	264	207	6	7	...	484
Putnam	159	35	...	...	194	300	327	...	1	...	628
Richland	321	...	...	...	321	329	318	...	...	72	719
Ross	352	...	17	...	369	450	388	29	25	...	892
Sandusky	281	4	2	...	287	471	399	3	1	...	874
Scioto	305	3	20	...	328	466	412	10	11	...	929
Seneca	278	10	...	...	288	365	308	1	3	...	737
Shelby	186	13	2	...	201	264	239	7	11	...	521
Stark	469	...	1	...	470	737	788	2	3	64	1,594
Summit	366	...	4	2	372	410	353	4	3	2	772
Trumbull	307	...	3	...	310	508	455	2	2	...	967
Tuscarawas	376	...	...	...	376	509	496	2	1	...	1,008
Union	189	...	1	...	190	274	227	2	7	...	510
Van Wert	207	...	...	...	207	292	332	3	1	...	628
Vinton	149	...	...	...	149	269	257	3	...	...	529
Warren	185	...	10	...	195	213	222	5	6	...	446
Washington	323	5	9	...	337	578	512	20	12	1	1,123
Wayne	301	...	...	...	301	473	429	...	1	...	903
Williams	153	2	...	...	155	251	260	...	...	...	511
Wood	272	3	...	...	275	358	346	...	2	...	706
Wyandot	205	1	...	...	206	233	231	1	2	...	467
Totals	24,913	450	431	2	25,796	34,462	32,755	869	908	306	69,300

(a) White and colored not designated in report.

(b) Estimated—the report of births in Hamilton county being evidently so incorrect as to be valueless, viz.: Males (white) 184, females 162; colored—males 2, females 3; total, 351.

SOCIAL STATISTICS.

TABLE SHOWING THE NUMBER OF MARRIAGES AND BIRTHS IN EACH COUNTY BY PROBATE JUDGES, FOR THE YEAR ENDING MARCH 31,

Counties.	Marriages.					Births.			
	White.		Colored		Total.	White.		Colored	
	By license.	By bans.	By license.	By bans.		Males.	Females.	Males.	Females.
Adams	235	..	3	.....	238	309	293	3	5
Allen	272	15	1	.....	288	441	360	12	1
Ashland	205	.....	1	.....	206	221	214	.....	1
Ashtabula	300	.....	1	.....	301	291	312	2	2
Athens	255	.....	9	.....	264	357	292	16	7
Auglaize	214	9	.....	.....	223	346	323	.....	.....
Belmont	313	.....	11	.....	324	517	512	25	21
Brown	264	.....	.....	.....	264	346	331	20	22
Butler	316	.....	12	.....	328	345	323	.....	.....
Carroll	132	.....	.....	.....	132	182	184	1	.....
Champaign	246	.....	11	.....	257	273	241	10	2
Clark (a)	324	.....	.....	.....	324	332	308	19	26
Clermont	283	5	9	.....	297	336	329	13	15
Clinton	247	.....	12	.....	259	242	230	13	6
Columbiana	318	.....	.....	.....	318	553	604	4	4
Costleton	220	.....	.....	.....	220	305	275	.....	.....
Crawford	260	5	1	.....	266	405	366	2	4
Cuyahoga	1,147	82	.....	.....	1,229	1,913	1,755	13	8
Darke	334	.....	.....	.....	334	495	501	3	6
Defiance	195	3	2	.....	200	234	208	1	.....
Delaware	239	.....	4	.....	243	214	223	8	5
Erie	243	.....	.....	.....	243	323	265	3	4
Fairfield	283	.....	.....	.....	283	338	339	5	3
Fayette	167	.....	10	.....	177	269	226	15	21
Franklin	707	1	.....	.....	708	663	626	15	15
Fulton	121	9	.....	.....	130	227	200	.....	.....
Gallia	269	.....	26	.....	295	327	290	31	32
Geauga	131	.....	.....	.....	131	143	111	.....	.....
Greene (a)	267	.....	.....	.....	267	263	222	22	35
Guernsey	200	.....	6	.....	206	232	255	6	3
Hamilton	2,346	138	106	.....	2,590	3,519	3,500	300	366
Hancock	275	.....	.....	.....	275	353	338	.....	.....
Hardin	267	2	16	.....	285	305	330	6	1
Harrison	146	.....	5	.....	151	191	180	13	12
Henry	140	5	.....	.....	145	240	202	.....	.....
Highland	259	.....	4	.....	263	313	295	11	17
Hocking	176	.....	3	.....	179	303	294	4	4
Holmes	166	.....	.....	.....	166	244	237	.....	.....
Huron	244	1	2	.....	247	323	276	3	1
Jackson	164	.....	6	.....	170	328	302	11	11
Jefferson	203	.....	7	.....	210	286	255	7	15

NUMBER OF MARRIAGES AND BIRTHS—Continued.

Counties.	Marriages					Births.					Total number of births.
	White.		Colored			White.		Colored			
	By license.	By banns.	By license.	By banns.	Total.	Males.	Females.	Males.	Females.	Sex unknown.	
Knox	270	...	1	...	271	213	224	...	2	...	439
Lake	104	...	...	...	104	137	106	...	...	...	243
Lawrence	327	...	19	...	346	325	527	14	13	...	883
Licking	306	...	1	...	307	414	375	1	1	...	791
Logan	216	...	6	...	222	222	244	6	11	...	547
Lorain	317	20	...	...	337	317	346	15	14	...	683
Lucas	402	32	...	...	434	252	739	...	2	...	1,611
Madison	152	...	...	...	152	141	176	13	10	...	340
Mahoning	202	15	2	...	219	477	415	5	2	1	900
Marion	173	...	...	...	173	212	23	3	2	2	454
Medina	191	...	...	...	191	228	100	...	...	...	426
Meigs	296	...	14	...	310	424	354	22	16	...	796
Mercer	121	30	...	...	151	291	249	...	...	...	540
Miami	272	1	10	...	283	326	303	2	7	...	636
Monroe	235	1	...	...	236	359	319	1	1	...	680
Montgomery	633	...	11	...	644	264	808	21	18	...	1,710
Morgan	171	...	...	...	171	236	248	...	...	...	486
Morrow	178	...	...	...	178	188	148	2	...	59	397
Muskingum	371	...	...	...	379	491	441	4	4	...	940
Noble (a)	199	...	...	...	199	270	227	1	...	...	558
Ottawa	133	...	...	...	133	174	192	...	...	...	366
Panhandle	86	...	3	...	89	173	141	5	12	...	331
Perry	183	...	...	...	183	304	278	...	...	...	582
Pickaway	190	...	2	...	192	275	264	15	13	4	571
Pike	168	...	...	...	168	268	248	9	6	...	531
Portage	221	...	...	...	221	200	211	...	...	...	411
Preble	192	...	9	...	201	214	207	6	7	...	424
Putnam	159	35	...	...	194	300	327	...	1	...	628
Richland	321	...	...	...	321	329	318	...	...	72	719
Ross	352	...	17	...	369	450	378	29	25	...	892
Sandusky	281	4	2	...	287	471	399	3	1	...	874
Scioto	505	3	20	...	528	466	412	10	11	...	929
Seneca	278	10	...	...	288	365	308	1	3	...	737
Shelby	186	13	2	...	201	264	239	7	11	...	521
Stark	469	...	1	...	470	737	788	2	3	64	1,594
Summit	366	...	4	2	372	410	353	4	3	2	772
Trumbull	307	...	3	...	310	508	455	2	2	...	967
Tuscarawas	376	...	...	...	376	509	496	2	1	...	1,006
Union	189	...	1	...	190	274	227	2	7	...	510
Van Wert	207	...	...	...	207	292	332	3	1	...	628
Vinton	149	...	...	...	149	269	257	3	...	...	529
Warren	185	...	10	...	195	213	222	5	6	...	446
Washington	323	6	9	...	337	578	512	20	12	1	1,123
Wayne	301	...	...	...	301	473	429	...	1	...	903
Williams	153	2	...	...	155	251	260	...	...	...	511
Wood	272	3	...	...	275	358	346	...	2	...	706
Wyandot	205	1	...	...	206	233	231	1	2	...	467
Totals	24,913	450	431	2	25,796	34,462	32,755	869	908	306	69,300

(a) White and colored not designated in report.

(b) Estimated—the report of births in Hamilton county being evidently so incorrect as to be valueless, viz.: Males (white) 184, females 162; colored—males 2, females 3; total, 351.

TABLE SHOWING THE NUMBER OF SCITS FOR DIVORCE, CAUSES OF SCITS, DIVORCES GRANTED, ETC., IN EACH COUNTY FOR THE YEAR ENDING JUNE 30, 1878.

County.	Suits, etc.										Custody of children.	Cause of divorce.												
	Pending July 1, 1877	Brought within year.	Total	Decided within year.	Still pending.	Brought by husband.	Brought by wife.	Alimony refused wife.	Granted to husband.	Refused husband.		Dismissed husband.	Granted to wife.	Refused wife.	Dismissed wife.	Given to which party was preferred.	Given to father.	Given to mother.	Adultery.	Absence and neglect.	Cruelty.	Drunkenness.	Fraud.	Miscellaneous.	Total.
Adams	4	6	10	13	2	2	5	2	1	1	1	3	1	1	3	2	2	4	5	4	1	1	1	13
Allen	5	15	20	11	7	2	13	2	1	1	1	10	1	1	4	10	2	2	5	11	1	1	1	21
Ashtabula	11	5	16	14	2	3	13	4	3	1	6	30	1	1	10	10	1	1	10	23	7	2	2	16
Ashland	25	9	34	33	5	13	47	1	4	1	1	40	1	1	10	6	2	2	18	3	7	1	1	82
Athens	5	9	14	10	4	3	13	1	1	1	1	3	1	1	2	2	1	1	6	2	1	1	1	14
Angeloze	3	16	19	15	4	12	12	1	1	1	1	3	1	1	5	5	1	1	9	7	1	1	1	19
Belmont	4	21	25	20	5	11	14	1	1	1	1	9	1	1	3	6	5	5	10	12	1	1	1	29
Brown	4	22	26	13	7	12	14	1	1	1	1	11	1	1	5	4	1	1	16	13	1	1	1	33
Butler	17	26	43	37	6	14	22	1	3	1	3	17	1	1	10	9	1	1	19	13	9	4	1	43
Carroll	3	8	11	7	4	2	9	1	1	1	1	4	1	1	7	7	1	1	8	13	1	1	1	11
Champaign	10	37	47	36	11	11	30	1	1	1	1	17	1	1	10	9	5	5	12	11	1	1	1	47
Clarke	13	24	37	27	10	14	23	4	1	1	1	13	1	1	6	5	5	7	16	8	3	1	3	37
Clermont	16	18	34	18	16	12	22	1	1	1	1	11	1	1	7	6	1	7	19	13	5	4	3	34
Columbiana	14	28	42	20	22	16	26	1	1	1	1	5	1	1	8	7	1	10	19	12	1	1	1	42
Coshocton	15	27	42	33	9	12	30	1	1	1	1	13	1	1	11	8	1	12	11	14	4	1	1	42
Crawford	1	6	7	5	2	4	4	1	1	1	1	1	1	1	1	1	1	2	7	6	1	1	1	7
Cuyahoga	42	203	245	177	68	58	157	22	35	5	7	93	1	33	48	44	32	106	41	54	7	5	245	
Darke	23	41	64	43	21	26	38	10	10	9	3	13	5	4	11	8	9	38	13	3	1	1	64	
Defiance	3	17	20	17	3	1	17	4	2	1	1	16	1	1	5	5	6	7	8	3	1	1	20	
Delaware	16	17	33	16	17	10	23	2	1	1	1	13	1	1	7	4	5	13	15	4	1	1	6	33
Erie	24	29	53	23	14	8	29	2	3	1	1	15	3	4	6	8	9	13	15	4	1	1	1	53
Fairfield	7	11	18	14	4	8	10	3	3	1	1	5	3	1	5	4	5	6	5	4	1	1	1	18
Fayette	4	7	11	5	6	4	7	1	3	1	1	5	3	1	6	1	6	6	4	2	1	1	1	11

SUITS FOR DIVORCE—Continued.

Counties.	Suits, etc.										Cause of divorce.					
	Pending July 1, 1877.	Brought within year.	Total.	Decided within year.	Still pending.	Brought by husband.	Brought by wife.	Alimony allowed wife.	Granted to husband.	Refused husband.	Dismissed husband.	Granted to wife.	Refused wife.	Dismissed wife.	Custody of children.	Total.
Portage	16	24	40	27	13	9	31	52	5	1	1	15	1	1	5	14
Preble	1	14	15	14	1	1	10	10	1	1	1	9	1	1	6	4
Putnam	6	6	12	11	1	1	10	3	1	1	1	6	1	1	3	2
Richland	14	21	35	14	21	8	27	10	1	1	1	7	1	1	3	22
Ross	8	14	22	11	11	8	14	10	3	1	1	4	1	1	3	22
Sandusky	2	26	28	20	8	7	21	2	4	1	1	12	1	1	3	28
Seloto	8	6	14	13	1	3	11	5	3	1	1	6	1	1	3	14
Seneca	11	30	41	41	1	15	26	11	1	1	1	17	1	1	9	41
Shelby	7	6	13	4	9	6	7	16	1	1	1	26	1	1	3	13
Stark	20	39	59	51	8	19	50	16	14	1	1	1	1	1	10	59
Summit	16	42	58	44	14	19	39	16	12	1	1	16	1	1	9	58
Trumbull	26	35	61	30	31	18	45	12	12	1	1	13	1	1	8	63
Tuscarawas	4	25	29	17	12	13	16	1	4	1	1	6	1	1	7	29
Union	20	20	40	14	26	5	15	1	4	1	1	6	1	1	2	40
Van Wert	3	17	20	11	9	8	12	6	3	1	1	3	1	1	4	20
Vinton	5	12	17	13	4	10	7	1	5	1	1	3	1	1	4	17
Warren	6	19	25	11	14	7	14	2	1	1	1	8	1	1	4	25
Washington	16	15	31	25	6	6	25	6	5	1	1	15	1	1	9	31
Wayne	8	16	24	15	9	6	18	2	5	1	1	6	1	1	5	24
Williams	6	14	20	19	1	10	10	4	5	1	1	10	1	1	2	20
Wood	6	27	33	29	4	7	26	5	7	1	1	17	1	1	7	33
Wyandot	6	19	25	24	1	11	14	4	2	1	1	13	1	1	3	25
Totals	1349	2024	3373	1997	1376	990	2483	439	428	25	165	1004	39	395	475	3373

TABLE SHOWING THE NUMBER AND NATIVITY OF PERSONS NATURALIZED IN OHIO FOR THE YEAR ENDING MARCH 31, 1873, AS REPORTED /
BY THE PROBATE JUDGE OF EACH COUNTY.

Counties.	Nativity of persons naturalized.														
	Austria.	British America and Canada.	Denmark.	England and Wales.	France.	Germany.	Holland and Belgium.	Ireland.	Italy.	Russia.	Scotland.	Sweden and Norway.	Switzerland.	All others.	Total.
Adams.....
Allen.....	1	5	.....	10	1	3	.....	.....	.....	.....	7	.....	.....
Ashland.....	1	.....	3	.....	2	.....	.....	.....	.....	.....	.....	.....
Ashtabula.....	2	.....	6	.....	.....	.....	7	.....	.....	.....	.....	.....	.....	.....
Athens.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Auglaize.....	18	.....	.....	.....	.....	.....	.....	.....	.....	.....
Belmont.....	10	.....	10	.....	6	.....	.....	1	.....	.....	.....	.....
Brown.....	1	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
Butler.....	1	9	.....	1	.....	1	2	.....	2	.....	.....
Carroll.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Champaign.....	4	.....	6	.....	.....	.....	.....	.....	.....	.....
Clarke.....	2	.....	1	.....	16	.....	4	.....	.....	.....	.....	1	.....	.....
Clermont.....	6	.....	1	.....	.....	.....	.....	.....	.....	.....
Clinton.....	2	.....	.....	.....	.....	.....	.....	.....
Columbiana.....	1	.....	11	1	7	.....	17	.....	.....	11	.....	3	.....	.....
Coshocton.....	2	.....	.....	5	1	3	.....	2	.....	.....	.....	.....	1	.....	.....
Crawford.....	2	.....	.....	1	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cuyahoga.....	40	13	1	53	.....	137	5	49	1	3	15	.....	3	.....	.....
Darke.....	1	9	.....	4	.....	.....	.....	.....	.....	.....	.....
Defiance.....	9	.....	.....	1	11	2	2	.....	.....	.....	.....	1	.....	.....
Delaware.....	3	.....	4	.....	6	.....	.....	1	.....	.....	.....	.....
Erie.....	2	2	.....	28	.....	2	.....	.....	1	1	.....	.....	.....
Fairfield.....	2	.....	14	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fayette.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
Franklin.....	17	.....	35	.....	21	1	.....	2	.....	1	.....	.....

Medina	69	105	10	408	48	1453	23	430	7	33	87	13	85	28	2796
Meigs				16		7		1							24
Meroer						10									10
Miami						10		2					1		13
Monroe						5							4		9
Montgomery				6		31		9					1		47
Morgan						1		3							4
Morrow				1		1									2
Muskingum	1			8	1	8			1						19
Noble						2									2
Ottawa	1		1			42		1							45
Paulding												1			1
Perry		2		9		1		12			6				30
Pickaway				2		1								1	4
Pike						2		7				1			10
Portage		1		5		5		3	2		1				17
Preble				2		6		5							13
Putnam		1		1		7		1		8				2	21
Richland				1		14		2			1	1			20
Ross						14									14
Sandusky		3		2	2	28	2	3							40
Scioto		1		2		8		3		1				1	16
Seneca				1		18		1							20
Sbelby						28		1							27
Stark		1		16	1	36	1	7		14	3				87
Summit	1	1		15	1	36		8			3	2	1		68
Trumbull				22	1			18			1			2	47
Tuscarawas				13		20		3			5				46
Union	1			3		3		1							8
Van Wert				2		6		1					1		10
Vinton				1		3		1							5
Warren				2				2							4
Washington				3		5		1			5				14
Wayne				3	4	10		2		1			6		28
Williams					1	5									6
Wood				3		5							1		9
Wyandot				2		7		2					4		15
Totals	59	105	10	408	48	1453	23	430	7	33	87	13	85	28	2796

TABLE SHOWING THE NUMBER OF LETTERS OF GUARDIANSHIP ISSUED IN OHIO FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	Letters issued.	Children included in same.	Idiots included in same.	In sane persons included in same.	Imbecile persons included in same.
Adams	28	65		2	1
Allen	42	61	3	3	1
Ashland	42	61		5	5
Ashtabula	26	34		2	4
Athens	39	79	1	2	
Auglaize	30	76			
Belmont	34	40	1	1	3
Brown	27	56		2	3
Butler	52	92		1	6
Carroll	21	30		2	1
Champaign	34	47		3	2
Clarke	37	67		3	1
Clermont	35	58			2
Clinton	35	70		1	3
Columbiana	52	56	1	7	11
Coshocton	27	52			1
Crawford	30	47		2	4
Cuyahoga	169	275		15	9
Darke	57	111			
Defiance	28	61			
Delaware	34	50		2	1
Erie	26	55		1	4
Fairfield	34	63		2	3
Fayette	12	22		1	1
Franklin	134	121		6	5
Fulton	14	21			1
Gallia	24	47			1
Geauga	13	14		1	2
Greene	35	43		7	1
Guernsey	23	41			
Hamilton	282	554	16	15	1
Hancock	45	66		4	5
Hardin	25	47	1	2	1
Harrison	24	39			3
Henry	11	31		1	4
Highland	33	54			1
Hocking	21	37		1	1
Holmes	19	36		1	1
Huron	32	58		2	
Jackson	18	1		1	
Jefferson	26	42		2	5
Knox	54	77		3	4
Lake	16	25		3	1
Lawrence	19	36			
Licking	49	76		3	7
Logan	37	59	1	4	3
Lorain	47	88		3	3
Lucas	34	61		4	
Madison	20	37		1	
Mahoning	29	46		2	1
Marion	36	63			3
Medina	11	42			1
Meigs	32	61	1	3	
Mercer	33	71		2	1
Miami	1	26		1	6

LETTERS OF GUARDIANSHIP IN OHIO, ETC.—Continued.

Counties.	Letters issued.	Children included in same.	Idiots included in same.	Insane persons included in same.	Imbecile persons included in same.
Monroe	26	37	.....	11	6
Montgomery	49	94	.....	5	5
Morgan	12	17	.....	1	5
Morrow	12	21	.....	1	1
Muskingum	45	57	1	5	4
Noble	31	31	1	2	.....
Ottawa	12	22	.....	.....	.....
Paulding	22	33	.....	.....	.....
Perry	20	30	.....	1	.....
Pickaway	23	37	.....	.....	2
Pike	24	41	.....	3	.....
Portage	32	35	.....	6	4
Preble	27	111	.....	2	3
Putnam	21	47	.....	.....	1
Richland	41	61	.....	3	5
Ross	57	95	.....	3	4
Sandusky	■	48	.....	1	4
Scioto	21	■	3	5	.....
Seneca	43	77	.....	1	5
Shelby	34	91	1	2	5
Stark	73	97	.....	4	12
Summit	36	65	.....	4	1
Trumbull	45	■	.....	4	3
Tuscarawas	31	58	.....	8	2
Union	19	39	2	.....	.....
Van Wert	14	30	.....	.....	.....
Vinton	11	16	.....	1	.....
Warren	■	41	.....	3	5
Washington	30	61	.....	2	.....
Wayne	55	86	.....	3	6
Williams	26	47	.....	2	3
Wood	34	44	4	5	1
Wyandot	27	37	.....	2	5
Totals	3,207	5,221	37	909	222

TABLE SHOWING THE NUMBER OF ESTATES ADMINISTERED UPON, ETC.,
YEAR ENDING MARCH 31, 1878.

Counties.	Wills admitted to probate.	Letters testamentary.	Letters of administration issued.
Adams	24	7	22
Allen	30	19	35
Ashland	30	24	29
Ashtabula	44	31	50
Athens	19	15	23
Auglaize	19	13	35
Belmont	41	39	45
Brown	32	24	35
Butler	44	26	138
Carroll	32	18	25
Champaign	18	11	30
Clarke	45	31	43
Clermont	40	21	59
Clinton	27	19	32
Columbiana	54	26	31
Coshocton	24	8	34
Crawford	30	8	32
Cuyahoga	168	70	182
Darke	15	13	63
Defiance	15	2	25
Delaware	30	27	41
Erie	28	17	53
Fairfield	22	13	49
Fayette	6	6	34
Franklin	79	32	87
Fulton	18	7	19
Gallia	25	13	15
Geauga	26	24	22
Greene	36	26	44
Guernsey	23	23	29
Hamilton	335	248	399
Hancock	11	11	46
Hardin	17	21	32
Harrison	28	25	26
Henry	7	1	30
Highland	31	24	30
Hocking	14	2	19
Holmes	24	12	34
Huron	50	25	53
Jackson	15	14	21
Jefferson	40	28	57
Knox	53	53	59
Lake	30	18	27
Lawrence	16	4	29
Licking	32	19	57
Logan	22	15	37
Lorain	77	30	67
Lucas	41	26	57
Madison	12	11	24
Mahoning	22	22	81
Marion	9	9	30
Medina	38	21	31
Meigs	34	21	25
Mercer	26	4	31

TABLE SHOWING THE NUMBER OF ESTATES ADMINISTERED UPON, ETC.—Continued.

Counties.	Wills admitted to probate.	Letters testamentary.	Letters of administration issued.	Estates administered upon.
Miami.....	29	29	71	100
Monroe.....	14	7	16	23
Montgomery.....	14	42	89	131
Morgan.....	16	6	13	27
Morrow.....	10	10	38	48
Muskingum.....	60	28	61	86
Noble.....	12	5	.....	5
Ottawa.....	9	6	14	20
Paulding.....	6	6	19	19
Perry.....	17	11	27	38
Pickaway.....	17	12	41	27
Pike.....	13	9	17	26
Portage.....	46	35	35	84
Preble.....	24	21	39	58
Putnam.....	18	8	31	39
Richland.....	56	33	61	92
Ross.....	39	24	60	84
Sandusky.....	25	13	15	22
Scioto.....	24	12	36	48
Seneca.....	45	24	48	71
Shelby.....	31	13	70	16
Stark.....	54	36	56	92
Summit.....	52	31	57	88
Trumbull.....	50	36	81	117
Tuscarawas.....	44	22	39	61
Union.....	15	8	22	30
Van Wert.....	12	7	29	36
Vinton.....	9	7	22	29
Warren.....	28	13	37	61
Washington.....	38	18	44	60
Wayne.....	45	23	51	74
Williams.....	16	6	26	34
Wood.....	20	11	38	49
Wyandot.....	24	15	28	43
Totals.....	2897	1864	3995	5463

TABLE SHOWING THE NUMBER OF PERSONS SENT TO OHIO HOSPITALS FOR THE INSANE, AS REPORTED BY THE PROBATE JUDGE OF EACH COUNTY, FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	White.		Colored.		Total.
	Males.	Females.	Males.	Females.	
Adams	6	11	1	.....	18
Allen	7	4	.....	.....	11
Ashland	7	7	.....	.....	14
Ashtabula	8	5	.....	.....	13
Athens	8	8	1	.....	17
Auglaize	1	2	.....	.....	3
Belmont	13	15	.....	1	29
Brown	9	5	.....	.....	14
Butler	1	4	.....	.....	5
Carroll	1	1	.....	.....	2
Champaign	5	8	1	.....	14
Clark	6	3	3	2	14
Clermont	1	2	.....	.....	3
Clinton	5	6	.....	.....	11
Columbiana	5	6	.....	.....	11
Coshocton	3	6	.....	.....	9
Crawford	5	12	.....	.....	17
Cuyahoga	39	40	.....	.....	79
Darke	5	3	.....	.....	8
Defiance	3	3	.....	.....	6
Delaware	9	17	.....	.....	26
Erie	9	10	.....	.....	19
Fairfield	5	9	.....	1	15
Fayette	5	4	1	.....	10
Franklin	44	36	.....	.....	80
Fulton	2	6	1	.....	9
Gallia	8	4	.....	.....	12
Geauga	4	4	.....	.....	8
Greene	10	2	1	3	16
Guernsey	14	7	1	2	24
Hamilton	213	159	1	.....	373
Hancock	6	6	1	.....	13
Hardin	4	4	.....	.....	8
Harrison	1	3	.....	.....	4
Henry	1	1	.....	.....	2
Highland	4	14	.....	.....	18
Hocking	3	3	.....	.....	6
Holmes	5	7	.....	.....	12
Huron	12	15	.....	.....	27
Jackson	10	2	.....	.....	12
Jefferson	17	17	1	.....	35
Knox	5	6	.....	.....	11
Lake	5	5	.....	.....	10
Lawrence	4	1	.....	1	6
Licking	9	11	.....	.....	20
Logan	5	4	.....	.....	9
Lorain	5	7	.....	.....	12
Lucas	9	14	.....	.....	23
Madison	7	4	.....	.....	11
Mahoning	15	12	.....	.....	27
Marion	1	6	.....	.....	7
Medina	3	5	.....	.....	8
Meigs	5	11	1	2	19
Mercer	3	1	.....	.....	4
Miami	1	8	.....	.....	9

NUMBER OF PERSONS SENT TO OHIO HOSPITALS FOR THE INSANE—Continued.

Counties.	White.		Colored.		Total.
	Males.	Females.	Males.	Females.	
Monroe	8	2	.....	.....	10
Montgomery	15	14	.....	.....	29
Morgan	9	6	.....	.....	15
Morrow	8	2	.....	.....	10
Muskingum	25	26	.....	.....	51
Noble	7	3	.....	.....	10
Ottawa	3	2	.....	.....	5
Paulding .....	.....	.....	.....	.....	.....
Perry	3	10	.....	.....	13
Pickaway	1	5	.....	.....	6
Pike	4	3	1	.....	8
Portage	2	4	.....	.....	6
Preble	5	4	1	.....	10
Putnam	1	1	.....	.....	2
Richland	12	10	.....	.....	22
Ross	5	12	2	1	20
Sandusky	9	9	.....	.....	18
Scioto	4	7	.....	2	13
Seneca	11	13	.....	.....	24
Shelby	3	3	.....	.....	6
Stark	13	15	.....	.....	28
Summit	16	13	.....	.....	29
Trumbull	11	5	1	.....	17
Tuscarawas	9	17	.....	.....	26
Union	2	3	.....	.....	5
Van Wert	2	.....	.....	.....	2
Vinton	2	3	.....	.....	5
Warren	6	2	.....	.....	8
Washington	7	14	.....	.....	21
Wayne	13	15	.....	.....	28
Williams	3	6	.....	.....	9
Wood	4	3	.....	.....	7
Wyandot	2	4	.....	.....	6
Totals	826	812	19	15	1,672

TABLE SHOWING THE NUMBER OF GIRLS SENT TO REFORM SCHOOL AT WE SPRINGS BY THE PROBATE COURT OF EACH COUNTY IN OHIO FOR THE MARCH 31, 1878.*

Counties.	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15
Ashtabula								1
Belmont							2	2
Butler								1
Clarke								1
Coshocton	2	1						
Crawford				1				
Cuyahoga				1			1	3
Delaware	1	1					1	
Franklin				1	1	3	1	2
Hamilton					2	1		1
Hardin								
Highland								1
Knox				1				
Licking	1		1				1	
Lucas					2	2	3	1
Mahoning				1	1			
Marion					1			
Miami				1	1			1
Montgomery								
Morrow		1						
Muskingum						2	2	
Perry						1		
Pickaway							1	
Richland								1
Ross						3	1	1
Sandusky					1			
Scioto					1			
Seneca					1			
Shelby							1	2
Stark							1	
Trumbull						1		
Warren				1				1
Washington							1	
Wood		1		1				1
Wyandot				1				1
Totals	4	4	1	9	11	13	16	21

* Fifty-three counties report "none sent by Probate Judges."

ENUMERATION OF DEAF AND DUMB, BLIND, INSANE, AND IDIOTIC PER
SEVERAL COUNTIES OF THE STATE ON THE DAY PRECEDING THE SEC
OF APRIL, 1878, AS REPORTED TO THE AUDITOR OF STATE.

Counties.	Deaf and dumb.	Blind.	Insane.	Idiot
Adams	6	13	9	
Allen	20	8	9	
Ashland	12	10	15	
Ashtabula	13	18	20	
Athens	10	5	2	
Auglaize	8	9	9	
Belmont	17	21	19	
Brown	26	15	12	
Butler	10	10	5	
Carroll	13	2	5	
Champaign	8	11	16	
Clarke	5	11	12	
Clermont	21	17	13	3
Clinton †				
Columbiana †				
Coshocton	13	11	4	1
Crawford	13	10	10	1
Cuyahoga	33	35	16	2
Darke	12	8	21	2
Defiance	9	3	9	
Delaware †				
Erie	5	6	5	11
Fairfield	17	11	4	31
Fayette	13	2		1
Franklin	31	23	10	11
Fulton	9	11	5	14
Gallia †				
Geauga	6	6	12	16
Greene	17	7	28	30
Guernsey	10	9	5	26
Hamilton	75	74	*752	47
Hancock	12	7	9	12
Hardin †				
Harrison	11	5	8	6
Henry	6	4	5	9
Highland	23	11	6	25
Hocking	9	11	8	6
Holmes	5	14	5	6
Huron	9	13	18	11
Jackson	10	11	2	6
Jefferson	6	9	9	17
Knox	6	12	3	9
Lake	7	11	18	4
Lawrence	16	23	10	17
Licking	10	10	3	9
Logan	7	11	17	35
Lorain	14	21	8	4
Lucas	17	11	11	12
Madison	8	6	3	32
Mahoning	18	19	12	10
Marion	8	5	5	1
Medina	12	8	6	6
Meigs	14	25	8	21
Mercer		8	2	6
Miami	17	7	16	21
Monroe	21	8	13	9
Montgomery	11	20	12	14
Morgan	11	7	11	17
Morrow	7	7	11	9
Muskingum	21	21	2	9

ENUMERATION OF THE DEAF AND DUMB, ETC.—Continued.

Counties.	Deaf and dumb.	Blind.	Insane.	Idiotic.	Total.
Noble †.....					
Ottawa	1	2	4	2	9
Paulding	8	7	6	5	26
Perry	14	15	14	21	64
Pickaway	22	25	20	18	85
Pike	7	2	2	6	17
Portage	7	15	34	9	65
Preble	9	6	15	15	45
Putnam	12	5	10	8	35
Richland	15	19	19	17	70
Ross †					
Sandusky	8	7	4	4	23
Scioto	14	12	8	5	39
Seneca	13	11	6	7	37
Shelby	8	7	3	12	30
Stark	32	19	40	23	114
Summit	21	10	21	28	83
Trumbull	21	18	15	14	68
Tuscarawas	24	10	8	24	66
Union	18	1	3	7	29
Van Wert	14	5	1	5	25
Vinton	5	8	2	15	30
Warren	18	16	19	11	64
Washington	33	28	20	27	108
Wayne	16	22	19	14	71
Williams †					
Wood	17	12	8	12	49
Wyandot	9	5	7	10	31
Totals	1,142	974	1,505	1,199	4,820

* Of this number 669 are inmates of Longview Asylum.

† No report from Clinton, Columbiana, Delaware, Gallia, Hardin, Noble, Ross, and Williams counties.

PAUPERISM AND ITS COST IN EACH COUNTY OF OHIO FOR CURRENT YEAR, AS REPORTED
BY COUNTY AUDITORS.

Counties.	Total number of paupers in infirmary.	Number of paupers admitted to infirmary—current year.	Number of paupers otherwise supported by the county—current year.	Total cost of keeping paupers in infirmary—current year.	Total cost of keeping paupers otherwise supported by the county—current year.*	Total cost.	Average cost of each pauper per day.
Adams	52	20	12	\$3,094	\$1,026	\$4,120	\$0 18
Allen	66	10	8	3,717	700	4,417	21
Ashland	40	8	186	3,229	5,623	8,852	†
Ashtabula	136	42	150	11,555	2,410	13,965	29
Athens	112	116	—	8,158	6,580	14,738	20
Auglaize	35	92	3	2,210	293	2,505	21
Belmont	146	85	39	9,825	4,775	14,600	27
Brown	74	62	31	5,161	380	5,542	15
Butler	162	164	693	9,289	6,671	15,960	05
Carroll	41	7	5	1,590	150	1,740	33
Champaign	58	41	164	4,839	1,931	6,770	24
Clarke	100	95	—	6,009	174	6,183	17
Clermont	154	59	10	7,518	1,603	9,121	15
Clinton	79	63	7	6,000	800	6,800	23
Columbiana	85	51	132	6,550	1,000	7,550	18
Coshocton	56	18	64	3,985	1,643	5,628	13
Crawford	51	41	41	4,715	989	5,704	20
Cuyahoga	—	—	—	—	10,068	10,068	†
Darke	109	62	—	5,872	1,623	7,495	†
Defiance	30	5	—	2,052	800	2,852	26
Delaware	80	53	293	4,500	8,641	13,141	10
Erie	61	55	325	5,250	7,950	12,300	24
Fairfield	110	75	34	10,000	2,000	12,000	27
Fayette	80	88	—	8,026	4,787	12,812	†
Franklin	290	350	2,520	29,000	8,000	37,000	30
Fulton	67	7	—	6,705	—	6,705	27
Gallia	49	67	5	3,459	2,227	5,686	†
Geauga	51	13	27	3,205	861	4,166	22
Greene	127	108	5	10,966	2,495	13,461	24
Guernsey	50	35	5	3,134	3,315	6,449	†
Hamilton	607	349	7,541	39,091	17,424	56,515	17
Hancock	60	52	21	2,876	769	3,645	16
Hardin	66	13	—	3,814	1,794	5,608	16
Harrison	92	30	50	5,319	4,429	9,748	19
Henry	40	15	10	5,000	1,000	6,000	16
Highland	40	7	25	2,119	1,918	4,037	17
Hocking	56	36	2	2,654	1,041	3,695	13
Holmes	39	10	20	3,283	561	3,844	24
Huron	81	7	—	6,973	5,345	12,358	23
Jackson	51	77	500	4,830	7,005	11,835	19
Jefferson	83	72	210	5,083	3,940	9,023	17
Knox	68	12	5	4,248	1,543	5,791	17
Lake	45	7	47	4,095	991	5,086	24
Lawrence	66	135	287	3,188	3,149	6,377	14
Licking	159	64	45	10,323	1,719	12,042	17
Logan	80	47	95	4,037	1,340	5,377	†
Lorain	53	45	3	6,420	2,617	9,037	46
Lucas	80	95	269	4,106	7,141	11,247	—
Madison	100	65	70	8,619	2,074	10,693	29
Mahoning	123	—	219	8,614	8,491	17,105	14
Marion	52	31	10	6,260	911	7,191	24

PAUPERISM AND ITS COST—Continued.

Counties.	Total number of paupers in infirmary.	Number of paupers admitted to infirmary—current year.	Number of paupers otherwise supported by the county—current year.	Total cost of keeping paupers in infirmary—current year.*	Total cost of keeping paupers otherwise supported by the county—current year.*	Total †.	Average cost of each pauper per day.
Medina	57	6		\$5,0-8		\$5,0-8	†
Meigs	48		269	2,463	\$4,918	7,381	\$0 14
Mercer	28	14	12	1,564	468	2,032	36
Miami	129	118	55	8,750	3,500	12,250	17
Monroe	51	25	12	2,692	446	3,138	13
Montgomery	195	142	20	21,930	2,533	24,463	19
Morgan	111	13	100	5,9-1	4,685	10,676	13
Morrow	32	16		1,413	421	1,834	26
Muskingum]							
Noble	81	32	58	2,313	3,016	5,329	16
Ottawa	21	38	11	2,772	857	3,629	15
Paulding	34	33	46	1,000	744	2,344	†
Perry	90	40	45	4,250	2,430	6,680	13
Pickaway	144	54		17,955		17,955	34
Pike	43	65	20	2,659	836	3,507	17
Portage	51	12		4,662	545	5,207	28
Preble	65	69	4	6,076	600	6,676	28
Putnam	48	21		3,507	1,892	5,399	23
Richland	67	33	170	5,603	2,650	8,316	†
Ross	146	121	25	10,377	1,789	12,166	19
Sandusky	49	6	150	4,205	4,126	8,331	24
Scioto	36	92	172	3,141	4,754	7,895	19
Seneca	48	31	†	4,904	955	5,859	24
Shelby	62	47	†	4,900		4,900	21
Stark	†	†	†	†	†	11,683	†
Summit	56	44	285	3,532	6,076	9,608	16
Trambull	97	90	111	5,471	3,000	8,471	12
Tuscarawas	124	75	120	5,014	2,197	7,211	68
Union	77	19		4,584		4,584	14
Van Wert	43	48	61	2,414	1,225	3,639	16
Vinton	62	16	15	4,024	1,879	5,903	23
Warren	112	31	31	6,652	770	7,422	12
Washington	68	17		4,090	15,568	19,658	39
Wayne	92	†	†	11,376	2,445	14,262	32
Wilkes	38	47		2,226	740	2,966	16
Wood	61	150	225	4,360	1,327	5,707	14
Wyandot	44	†	†	2,772	1,451	4,224	17
Totals	7,136	4,740	16,427	\$517,816	\$243,964	\$772,425	

* Fractions omitted.

† Average cost not reported.

‡ Have no county infirmary.

§ Not reported.

¶ Number not reported.

‡ Amount not reported.

TABLE EXHIBITING THE JAIL STATISTICS OF OHIO, AS REPORTED BY THE SHERIFF OF EACH COUNTY.

County.	Nativity of Prisoners.																		Color.		Cost.	
	Foreign.																					
	British America and Canada.	Denmark.	England and Wales.		France.	Germany.	Holland and Belgium.	Ireland.	Italy.	Russia.	Scotland.	Spain.	Sweden and Norway.	Switzerland.	Other countries.	Unknown.	Total foreign and unknown.	Native.				
Ohio.																		Other States.	Total native.			
Adams																57	27	8	16	34	40	\$366.00
Allen																3	27	3	32	60	72	800.00
Ashtabula																3	25	5	33	56	5	136.53
Athens																3	25	1	30	56	3	1,401.08
Angelo																3	25	1	30	56	3	1,034.30
Baymont																3	25	1	30	56	3	1,534.53
Brown																3	25	1	30	56	3	1,035.09
Buier																3	25	1	30	56	3	856.50
Carroll																3	25	1	30	56	3	2,450.01
Champaign																3	25	1	30	56	3	540.00
Clarke																3	25	1	30	56	3	1,159.01
Clermont																3	25	1	30	56	3	2,460.10
Clinton																3	25	1	30	56	3	317.35
Columbiana																3	25	1	30	56	3	1,044.00
Coshocton																3	25	1	30	56	3	655.60
Crawford																3	25	1	30	56	3	3,112.00
Cuyahoga																3	25	1	30	56	3	4,202.55
Darke																3	25	1	30	56	3	1,018.10
Delaware																3	25	1	30	56	3	1,013.00
Elie																3	25	1	30	56	3	600.00
Fairfield																3	25	1	30	56	3	1,711.58
Fayette																3	25	1	30	56	3	575.75
Franklin																3	25	1	30	56	3	624.65
Fulton																3	25	1	30	56	3	195.50
Geauga																3	25	1	30	56	3	430.00
Gallia																3	25	1	30	56	3	1,726.00
Seneca																3	25	1	30	56	3	921.00

SECRETARY OF STATE

[illegible]

JAIL STATISTICS IN OHIO, AS REPORTED BY THE SHERIFF OF EACH COUNTY—Continued.

County.	Nativity of Prisoners.																	Color.		Cost.					
	Native.																								
	Austria.	British America and Canada.	Denmark.	England and Wales.	France.	Germany.	Holland and Belgium.	Ireland.	Italy.	Russia.	Scotland.	Spain.	Sweden and Norway.	Switzerland.	Other countries.	Unknown.	Total foreign and unknown.	Ohio.	Other States.	Total native.	Total No. white prisoners.	Total No. colored prisoners.	Total number of prisoners.	Average cost per day of keep- ing prisoners.	Total annual cost of keeping prisoners.
Vinton	3	..	..	..	..	..	..	..	..	..	..	28	6	49	40	10	50	\$0 64	\$226 97
Warren	43	5	77	45	10	55	\$0 76	1,214 00
Washington	52	1	59	57	3	62	\$0 50	1,141 50
Wayne	59	1	59	57	2	62	\$0 62	1,413 78
Williams	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	58	88	132	..	128	..	668 00
Wood	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	19	14	33	100	..	132	..	930 75
Wyandot	64	5	68	68	..	70	\$0 68	585 75
Totals	3	133	4	213	44	625	1	770	90	1	41	1	5	12	57	113	5013	3883	9116	6999	7546	736	8242	\$0 57	\$925,746 11

* Total cost not reported.

ANNUAL REPORT OF THE SUPERINTENDENT OF THE OHIO INSTITUTION FOR THE EDUCATION OF THE DEAF AND DUMB FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.
Number of pupils in the institution November 15, 1877...	244	194	438
Number of pupils admitted during the year	49	30	79
Total number current year.....	293	224	517
Number discharged.....	43	38	81
Number died. None.			
Number remaining in the institution November 15, 1878..	250	186	436

NOTE.—No record of nativity of pupils.

AGE OF INMATES ADMITTED CURRENT YEAR.

Ages.	44	21	19	18	17	16	15	14	13	12	11	10	9	8	7	6
Males	—	—	1	—	6	4	4	3	1	3	2	5	7	4	7	2
Females.....	1	1	—	2	3	2	3	4	—	—	1	2	4	2	1	4

ANNUAL REPORT OF THE SUPERINTENDENT OF THE OHIO INSTITUTION FOR THE EDUCATION OF THE BLIND FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	TOTAL	Nativity of inmates.		
				Ohio.	Other States.	Foreign countries.
Number of pupils in the institution November 15, 1877.....	67	74	141			
Number remaining in the institution November 15, 1878.....	86	85	171	141	28	19

ANNUAL REPORT OF THE SUPERINTENDENT OF THE OHIO INSTITUTION FOR THE EDUCATION OF IMDECILE YOUTH, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.
Number of pupils in the institution November 15, 1877.....			434
Number of pupils admitted during the year.....	47	31	78
Total number current year.....	303	209	512
Number discharged.....			26
Number died.....	6	3	9
Number remaining in the institution November 15, 1878..	235	191	426

NOTE.—Nativity of pupils not reported.

MORTUARY RECORD, NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Consumption.	Menigitis.	Convulsions.	Peritonitis.	Total numbr of deaths.
Males.....	3		2	1	6
Females.....	1	1	1		3

AGE OF INMATES ADMITTED CURRENT YEAR.

	6	7	8	9	10	11	12	13	14	15
Males.....	8	6	8	3	5	3	6	3	3	2
Females.....	5	4	4	2	5	3	2	2	2	2

ANNUAL REPORT OF THE SUPERINTENDENT OF THE OHIO SOLDIERS' AND SAILORS' ORPHANS' HOME, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.	Nativity. Ohio.
Number of pupils in the institution Nov. 15, 1877.....	334	240	604	604
Number of pupils admitted during the year.....	64	30	94	94
Total number current year.....	423	270	693	.....
Number discharged.....	54	26	80	.....
Number died.....		1	1	.....
Number remaining in the institution Nov. 15, 1878.....	351	249	600	.....

REMARKS.—The seventeen children absent from the Home November 15, 1878, are accounted for by leave of absence, etc.

Mortuary Record, November 15, 1877, to November 15, 1878.

	Consumption.	Total number of deaths.
Males.....		.....
Females.....	1	1

ANNUAL REPORT OF THE SUPERINTENDENT OF THE ATHENS ASYLUM FOR THE INSANE, ATHENS, ATHENS COUNTY, OHIO, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.	Nativity of inmates.					
				Ohio.		Other States		Unknown and foreign countries.	
				Males.	Females.	Males.	Females.	Males.	Females.
No. in the institution Nov. 15, 1877.....	257	292	549	146	171	35	47	61	47
No. admitted during the year.....	90	113	212	59	70	19	31	14	16
Total number current year.....	356	405	761	205	241	54	68	97	98
No. discharged recovered.....	47	60	97	12	42	8	4	1	2
No. discharged improved.....	8	8	16					3	6
No. discharged stationary.....	20	17	37	13	13	9	2	2	1
No. died.....	20	17	37	12	9	4	6	4	
No. remaining in the institution Nov. 15, 1878.....	261	313	574						

REMARKS.—The numbers discharged as recovered, improved, stationary, and died, represent those from the admitted of all years from the opening of the asylum, January 2, 1874.

Daily average for the year—males, 261; females, 310.

OCCUPATION AND CONDITION OF PATIENTS.

	Farmers.	Merchants.	Mechanics.	Ministers.	Lawyers.	Laborers.	Teachers.	Other occupations.	Condition of patients.			
									Married.	Single.	Widowed.	Unknown.
Males.....	36	3	18	1	1	26	2	14	24	43	4	7
Females.....									23	26	13	6

**ANNUAL REPORT OF THE SUPERINTENDENT OF THE CLEVELAND ASYLUM FOR THE IM-
SANE, NEWBURGH, OHIO, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.**

	Males.	Females.	Total.	Nativity of patients.					
				Ohio.		Other States.		Foreign countries.	
				Males.	Females.	Males.	Females.	Males.	Females.
Number in the institution Nov. 15, 1877.....	269	288	551	123	131	60	60	83	94
Number admitted during the year.....	114	105	219	53	44	23	22	39	29
Total number under treat- ment current year.....	383	393	776	176	175	83	82	121	123
Number discharged as recov- ered.....	39	46	84	18	25	11	11	10	7
Number discharged as im- proved.....	20	20	40	8	11	0	7	5	3
Number discharged as unim- proved.....	9	17	26	5	7	1	1	3	9
Number died.....	12	7	19	3	2	3	2	6	3
No. remaining in the institu- tion Nov. 15, 1878.....	303	297	600	144	130	60	69	96	111

OCCUPATION AND CONDITION OF PATIENTS.

	Farmers.	Merchants.	Mechanics.	Ministers.	Lawyers.	Doctors.	Laborers.	Teachers.	Manufacturers.	Housekeepers.	Seamstresses.	Other occupations.	No occupation.	Condit'n of patients.			
														Married.	Single.	Widowed.	Unknown.
Males.....	125	21	23	1	3	1	24	2	4	.....	.....	23	23	156	202	21	8
Females.....	.....	.....	.....	.....	.....	.....	.....	.....	332	14	.....	2	24	200	131	43	8

ANNUAL REPORT OF CLEVELAND ASYLUM—Continued.

CAUSE OF INSANITY.

	Hereditary.	Moral causes.	Constitutional diseases.	Diseases of nervous system.	Diseases of organs of circulation.	Diseases of digestive organs.	Diseases of generative organs.	Diseases of organs of locomotion.	Diseases of integumentary system.	Developmental diseases.	Injuries.	Alcoholism.	Self-abuse.	Unknown.
Males	61	54	4	18	1	3	—	1	—	2	12	36	34	151
Females..	61	60	3	8	1	13	64	—	1	1	2	2	6	148

MORTUARY RECORD, NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Cause of death.								Total number of deaths.
	Pareisa.	Acute man exhaustion.	Chronic man exhaustion.	Heart disease.	Softening brain.	Apoplexy.	Pathiae pulmon.	Pyæmia.	
Males	6	4	1	1	1	—	—	—	12
Females	—	—	1	—	—	1	1	1	7

AGE OF PATIENTS ADMITTED CURRENT YEAR.

	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80
Males	11	14	17	20	13	6	5	9	8	6	2	2	1
Females	4	9	12	12	11	16	14	13	9	4	1	—	—

ANNUAL REPORT OF THE SUPERINTENDENT OF THE COLUMBUS ASYLUM FOR THE INSANE, COLUMBUS, OHIO, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.	Nativity of patients reported current year.					
				Ohio.		Other States.		Foreign countries.	
				Males.	Females.	Males.	Females.	Males.	Females.
Number of patients in the Institution Nov. 15, 1877..	387	428	815	320	327	100	120	156	140
Number of patients admitted during the year	201	210	411	.....	.....	.....	.....	.....	.....
Total number under treatment current year	588	638	1226	.....	.....	.....	.....	.....	.....
Number discharged as recovered	103	74	182	.....	.....	.....	.....	12	51
Number discharged as improved	24	45	69	.....	.....	.....	.....	.....	.....
Number discharged as unimproved	20	28	48	.....	.....	.....	.....	.....	.....
Number died	42	59	74	.....	.....	.....	.....	.....	.....
Number remaining in the institution Nov. 15, 1878..	391	459	850	.....	.....	.....	.....	.....	.....

Note.—The number of incurables is difficult to determine; will probably exceed 500.

OCCUPATION AND CONDITION OF PATIENTS.

	Occupation.										Condition.			
	Farmers.	Merchants.	Mechanics.	Lawyers.	Doctors.	Laborers.	Manufacturers.	Telegraph operators.	Railroad operatives.	Other occupations.	Married.	Single.	Widowed.	Unknown.
Males	203	14	8	3	9	142	1	2	2	206	534	544	125	33
Females .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

REPORT OF COLUMBUS ASYLUM—Continued.

CAUSE OF INSANITY.

	Hereditary.	Moral causes.	Zymotic diseases.	Diseases of nervous system.	Diseases of respiratory organs.	Diseases of digestive organs.	Diseases of urinary organs.	Diseases of generative organs.	Diseases of organs of locomotion.	Injuries.	Alcoholism.	Self abuse.	Opium.
Males.....	60	124	12	42	1	12	5	5	3	2	42	63	5
Females...	106	133	11	31	1	2	.....	112	.....	.....	2	2	4

MORTUARY RECORD, NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Anemia.	Apoplexy.	Chronic hepatitis.	Cerebral congestion.	Diarrhea.	Dysentery.	Embolism.	Endocarditis.	Epilepsy.	Exhaustion.	Fracture.	Gangrene.	Inanition.	Fall.	Leuco-cythemias.
Males.....	.....	2	1	.....	1	1	1	.....	1	4	.....	.....	4	.....	.....
Females.....	1	.....	1	1	.....	.....	.....	1	1	1	2	2	4	1	1

MORTUARY RECORD—Continued.

	Ataxia.	Maniacal exhaustion.	Old age.	Peritonitis.	Paralysis.	Pericarditis.	Purpura.	Atrophy.	Pyæmia.	Softening of brain.	Suicide.	Typhoid fever.	Consumption.	Total number of deaths.
Males.....	1	5	2	1	2	.....	.....	.....	1	.....	.....	1	4	36
Females.....	.....	2	2	.....	1	1	1	1	.....	1	2	.....	10	38

AGE OF PATIENTS ADMITTED CURRENT YEAR.

	Under 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	Unknown.
Males.....	2	69	150	117	69	55	11	7	108
Females.....	2	46	152	101	77	42	11	5	202

**ANNUAL REPORT OF THE SUPERINTENDENT OF THE DAYTON ASYLUM FOR THE INSANE,
DAYTON, OHIO, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.**

	Males.	Females.	Total.	Nativity of patients.				
				Ohio.		Other States.		Foreign countries and unknown—both sexes.
				Males.	Females.	Males.	Females.	
No. of patients in the institution Nov. 15, 1877	207	231	439	*63	53	*21	23	†55
No. admitted during year	138	121	259	.....	116	.....	44	.....
Total No. under treatment current year	345	352	697	.....	.....	.....	.....	.....
No. discharged recovered	11	22	33	.....	.....	.....	.....	.....
No. discharged improved	10	9	19	.....	.....	.....	.....	.....
No. discharged unimproved	6	2	8	.....	.....	.....	.....	.....
No. died	25	11	36	.....	.....	.....	.....	.....
No. remaining in the institution Nov. 15, 1878.....	282	305	587	.....	.....	.....	.....	.....

* Deduct one from male column—transferred to Athens.

† Nativity unknown.

‡ Unknown.

REMARKS.—Number of incurables, ninety per cent. Reports as to causes, nativity, etc., are necessarily imperfect, having been made up from former records, which were the only available source of information.

OCCUPATION OF PATIENTS.

	Farmers.	Merchants.	Mechanics.	Laborers.	Other occupations.	No occupation, or unknown.
Males	61	2	1	37	■	28
Females .....	.....	.....	.....	.....	.....	.....

CAUSE OF INSANITY.

	Moral causes.	Zymotic diseases.	Diseases of nervous system.	Diseases of digestive organs.	Diseases of generative organs.	Miscellaneous diseases.	Self-abuse.	Unknown.
Males	14	4	10	10	.....	28	10	28
Females	24	.....	2	.....	11	5	1	.....

REPORT OF DAYTON ASYLUM—Continued.

MORTUARY RECORD, NOVEMBER 15, 1877, TO NOVEMBER 15, 1878

	Cause of death.									
	Mania.	Paralysis.	Apoplexy.	Consumption.	Dysentery.	Erysipelas.	Suicide.	Fever.	Hemorrhage, cerebral.	Delirium tremens.
Males	7	5	1	4	1	—	—	1	2	1
Females	5	—	2	5	—	1	1	—	—	—

AGE OF PATIENTS ADMITTED CURRENT YEAR.

	15 to 20.	25 to 30.	35 to 40.	45 to 50.	55 to 60.	65 to 70.	75 to 80.
Males	7	50	53	49	11	23	10
Females	—	—	—	—	—	—	—

ANNUAL REPORT OF THE SUPERINTENDENT OF THE LONGVIEW ASYLUM FOR THE
CARTHAGE, HAMILTON COUNTY, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878

	Males.	Females.	Total.	Nativity of patient			
				Ohio.		Other States.	
				M.	F.	M.	F.
No. of patients in the institution November 15, 1877	313	333	646	—	—	—	—
No. of patients admitted during the year	98	90	188	36	30	20	11
Total number under treatment current year	411	423	834	—	—	—	—
No. discharged as recovered ..	41	26	67	—	—	—	—
No. discharged as improved ..	11	27	38	—	—	—	—
No. discharged as unimproved ..	7	11	18	—	—	—	—
No. died	32	16	48	—	—	—	—
No. remaining in the institution November 15, 1878	317	343	660	—	—	—	—

REPORT OF LONGVIEW ASYLUM—Continued.

OCCUPATION AND CONDITION OF PATIENTS.

	Occupation.							Condition.			
	Farmers.	Laborers.	Railroad opera- tives.	Housekeepers.	Seamstresses.	Other occupa- tions.	No occupation.	Married.	Single.	Widowed.	Unknown.
Males	11	19	1	24	4	61	6	27	65	■	3
Females				24	4	74	14	34	39	16	1

CAUSES OF INSANITY.

	Hereditary.	Moral causes.	Zymotic dis- eases.	Constitutional diseases.	Diseases of nerv- ous system.	Diseases of gen- erative organs.	Injuries.	Alcoholism.	Self-abuse.	Unknown.
Males	14	11	2	16	14	1	5	■	19	1
Females	12	38	2	7	2	15	1	6	.....	1

MORTUARY RECORD FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Cause of death.									Total number of deaths.
	Apoplexy.	Doldrity.	Epilepsy.	Hemiplegia.	Maniacal exhaustion.	General paralysis.	Phtisie pulmonalis.	Pneumonia.	Senility.	
Males	1	2	6	.....	11	2	2	1	1	28
Females	1	.....	6	1	3	2	2	1	1	16

AGE OF PATIENTS ADMITTED CURRENT YEAR.

	10 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.
Males	3	44	23	14	4	7	3
Females	7	25	26	17	6	8	1

ANNUAL REPORT OF THE SUPERINTENDENT OF THE OHIO REFORM SCHOOL, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.
Number admitted during the year	282
Total number current year, average	521
Number died	None.
Number remaining in the institution November 15, 1878*	494

* Age of inmates not reported.

ANNUAL REPORT OF THE SUPERINTENDENTS OF THE TOLEDO, OHIO, HOUSE OF REFUGE AND CORRECTION, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Total.	Nativity of inmates.			
			Ohio.	Other States.	Un-known.	Foreign Countries.
Number of inmates in the institution November 15, 1877	164	.....	83	7	8	6
Number of inmates admitted during the year	104	.....	.....	.....	.....	.....
Total number current year .....	.....	268	.....	.....	.....	.....
Number discharged and escaped	100	.....	.....	.....	.....	.....
Number died	3	.....	.....	.....	.....	.....
Number remaining in the institution November 15, 1878 .....	.....	165	.....	.....	.....	.....

MORTUARY RECORD, NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Cause of death.		Total number of deaths.
	Diphtheria.	Pneumonia.	
Males	2	1	3

AGE OF INMATES ADMITTED CURRENT YEAR.

	7	8	9	10	11	12	13	14	15
Males	1	3	9	16	21	10	8	21	15

ANNUAL REPORT OF THE WARDEN OF THE OHIO PENITENTIARY, COLUMBUS, OHIO, FROM
NOVEMBER 1, 1877, TO NOVEMBER 1, 1878.

	Males	Females	Total.	Nativity of convicts.			No convicts under life sen- tence.
				Ohio.	Other States.	Foreign countries.	
No. of convicts in the Peni- tentiary Nov. 1, 1877 ...	1574	24	1598	338	341	146	*73
No. received during year ...	815	10	825				
Total number current year ...			2423				
No. discharged by pardon ...	137	1	138				
No. discharged by expira- tion of sentence ...	613	7	620				
No. escaped ...	7		7				
No. died ...	10		10				
No. transferred to Reform Farm, Insane Asylum, new trial, etc ...			15				
No. remaining in the Peni- tentiary Nov. 1, 1878 ...			1633				

* Among the 73 life prisoners are 2 females.

OCCUPATION AND CONDITION OF CONVICTS PREVIOUS TO CONVICTION.

	Farmers.	Merchants.	Mechanics.	Ministers.	Lawyers.	Doctors.	Laborers.	Teachers.	Telegraph operators.	Railroad opera- tives.	Housekeepers.	Seamstresses.	Other occupa- tions.	No occupation.	Condition.		
															Married.	Single.	Widowed.
Males ...	148	9	265	1	1	2	178	6	2	30			173	3	275	513	27
Females ...											4	2	1	3	5	5	

CRIMES FOR WHICH SENTENCED.

Assault with intent to kill ...	5	Horse stealing ...	26
" with intent to rob ...	5	House breaking and larceny ...	4
" with intent to wound ...	3	Incest ...	2
" with intent to rape ...	16	In possession of counterfeit U. S. coin ...	1
" with intent to kill and rob ...	10	Killing domestic animal ...	1
Attempt to rape ...	7	Larceny and receiving stolen goods ...	2
" disfigure man ...	1	Murder, first degree ...	1
" burn jail ...	1	Murder, second degree ...	1
" burn property ...	1	Manslaughter ...	1
Aiding and inciting horse stealing ...	1	Malicious killing a mare ...	1
Aiding prisoners to escape ...	2	Making counterfeit U. S. notes ...	1
Abetting in burglary and larceny ...	1	Making and passing counterfeit U. S. notes ...	1
Accessory to abortion ...	1	Making and passing counterfeit U. S. coin ...	1
Arson ...	12	Obtaining goods under false pretenses ...	1
Aiding and abetting grand larceny ...	5	Obtaining money under false pretenses ...	1
Bigamy ...	10	Obstructing railroad ...	1
Burglary ...	114	Perjury ...	1
Burglary and larceny ...	210	Receiving stolen goods ...	1
Burglary and larceny and concealing stolen goods ...	2	Robbery and larceny ...	1
Burglary and robbery ...	1	Robbery ...	1
Breaking in post-office ...	1	Robbery and entering storehouse to com. felony ...	1
Cutting with intent to kill ...	5	Rape ...	1
Cutting with intent to wound ...	13	Stealing counterfeit money and other property ...	1
Concealing stolen goods ...	1	Shooting with intent to kill ...	1
Embezzlement ...	1	Shooting with intent to wound ...	1
Embossing letters from U. S. Post-office ...	1	Stabbing with intent to kill ...	1
Forgery ...	26	Stabbing with intent to wound ...	1
Felonious shooting ...	1	Stealing a mule ...	1
Grand larceny ...	124		

REPORT OF OHIO PENITENTIARY--Continued.

MORTUARY RECORD, NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Lung disease.	Abscess of lungs	Diphtheria.	Brain disease.	Suicide by poison.	Abscess of brain by gunshot wound, self-inflicted.	Pulmonary consumption.	Apoplexy.	Killed by machinery.	Total number of deaths.
Males	1	1	1	1	1	1	2	1	1	10
Females										

AGE OF CONVICTS RECEIVED CURRENT YEAR.

	15 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 75
Males	114	431	160	54	30	12	2
Females							

VITAL STATISTICS

AND

NOSOLOGY OF OHIO.

TABLE SHOWING THE CONDITION OF DECEASED PERSONS AT TIME OF DEATH FOR THE YEAR ENDING MARCH 31, 1878, ARRANGED BY COUNTIES FROM THE REPORTS OF PROBATE JUDGES.

Counties.	Single.		Married.		Widowed.		Unknown.		Total.		Condition, age, and sex unknown.	Total number of deaths.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Adams	55	33	41	19	7	9	3	5	106	63	.....	169
Allen	86	63	34	35	2	18	.....	.....	122	136	.....	258
Ashland	62	38	43	25	15	18	2	5	112	86	6	204
Ashkabula	48	54	69	57	19	41	.....	.....	136	152	.....	298
Athens	61	47	34	32	3	12	.....	.....	102	91	1	194
Auglaize	62	64	49	25	2	3	4	1	134	93	.....	327
Belmont	109	102	61	62	18	27	.....	.....	188	181	.....	369
Brown	72	52	40	28	9	11	10	22	131	113	11	255
Butler	130	95	33	17	7	11	21	15	191	138	.....	329
Carroll	46	48	21	25	11	11	.....	.....	78	84	.....	162
Champaign	80	61	32	30	9	10	2	.....	123	101	.....	224
Clarke	81	63	48	34	4	11	1	5	134	113	19	366
Clermont	77	63	75	39	14	40	.....	1	166	142	.....	308
Clinton	49	47	30	39	6	12	.....	.....	85	93	.....	183
Columbiana	174	163	94	51	24	16	4	2	300	232	.....	532
Cochocton	32	25	36	32	3	11	1	2	72	70	12	154
Crawford	97	75	49	37	8	20	.....	.....	154	132	.....	286
Cuyahoga	399	307	151	111	42	59	12	7	634	484	.....	1,118
Darke	95	112	48	60	15	20	.....	.....	154	192	.....	350
Defiance	62	57	33	90	12	7	.....	.....	107	84	.....	191
Delaware	66	45	45	30	16	20	1	.....	145	95	10	253
Erie	60	50	42	23	6	9	.....	4	103	86	10	204
Fairfield	69	64	46	41	13	14	1	2	129	121	.....	250
Fayette	62	42	21	14	7	2	.....	1	90	59	6	155
Franklin	143	142	64	63	19	18	21	14	287	243	6	516
Fulton	34	43	24	23	3	2	12	3	73	71	.....	144
Gallia	36	31	28	30	12	8	5	1	62	70	.....	152
Geauga	21	14	43	19	11	17	2	.....	77	50	.....	127

Greene	59	78	52	43	11	18	4	2	126	141	1	288
Guernsey	36	51	52	24	17	14	.....	.....	105	81	.....	194
Hamilton	817	729	329	265	104	141	187	169	1,437	1,304	37	2,778
Hancock	53	60	39	40	3	11	5	3	105	114	.....	219
Hardin	76	64	29	28	7	5	5	.....	117	97	.....	214
Harrison	46	43	35	21	8	3	.....	.....	89	67	.....	156
Henry	42	39	15	8	5	8	9	13	71	68	.....	139
Highland	88	69	32	43	9	20	15	2	144	134	.....	278
Hocking	51	47	32	23	3	9	.....	3	86	82	.....	168
Holmes	54	53	24	24	12	9	3	1	93	87	.....	180
Huron	75	51	63	47	25	26	.....	.....	163	124	.....	257
Jackson	60	64	29	27	1	11	.....	.....	90	102	.....	192
Jefferson	42	40	59	31	4	7	.....	.....	105	78	.....	183
Knox	63	56	39	31	16	13	.....	.....	118	100	.....	218
Lake	28	21	30	22	5	11	.....	.....	63	54	.....	117
Lawrence	117	91	20	21	4	7	.....	.....	141	119	.....	260
Licking	89	92	63	60	6	22	.....	.....	156	174	.....	332
Logan	79	61	31	30	10	14	1	4	121	109	.....	230
Lorain	74	66	49	58	29	29	.....	2	152	155	2	309
Lucas	225	171	116	76	16	15	.....	.....	357	262	.....	619
Madison	44	50	26	17	6	9	.....	.....	78	76	.....	154
Mahoning	79	66	60	41	9	14	9	2	157	123	.....	250
Marion	54	53	22	22	7	11	.....	.....	83	91	.....	174
Medina	34	29	53	40	5	20	.....	.....	92	89	.....	181
Meigs	53	69	48	36	6	18	.....	.....	107	123	.....	230
Mercer	66	59	18	25	6	8	6	3	96	95	.....	191
Miami	101	63	57	33	5	9	5	3	168	118	.....	286
Monroe	69	61	34	37	6	14	.....	.....	113	112	.....	225
Montgomery	354	207	179	104	41	34	.....	.....	574	349	.....	923
Morgan	33	39	25	31	7	13	.....	1	65	84	.....	149
Morrow	54	45	42	26	10	16	2	1	108	88	.....	196
Muskingum	109	85	93	49	15	27	16	7	233	168	.....	401
Noble	33	22	25	17	6	9	1	1	65	49	.....	114
Ottawa	51	33	12	14	5	10	4	4	72	61	.....	133
Paulding	42	64	17	19	2	1	6	5	67	59	.....	156
Perry	74	57	31	36	7	10	1	2	113	105	.....	218
Pickaway	52	63	33	34	6	15	1	1	92	113	14	219
Pike .....	.....	.....	.....	.....	.....	.....	.....	.....	96	62	.....	158
Portage	34	34	43	50	11	29	3	1	91	114	.....	205
Preble	57	54	39	51	8	20	.....	1	104	126	.....	230
Putnam	68	56	34	31	7	4	1	2	110	93	.....	203
Richland	58	50	49	48	5	17	6	2	111	117	2	230

TABLE SHOWING THE CONDITION OF DECEASED PERSONS—Continued.

Counties.	Single.		Married.		Widowed.		Unknown.		Total.		Condition, age, and sex unknown.	Total number of deaths.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Ross	96	94	60	52	12	24	.....	.....	168	170	.....	338
Sandusky	93	80	53	34	13	13	.....	.....	159	127	.....	286
Scioto	101	99	44	28	15	18	1	.....	161	145	.....	306
Seneca	66	69	52	37	7	16	.....	.....	125	122	.....	247
Shelby	65	58	38	40	16	14	1	2	123	114	.....	237
Stark	119	100	63	61	34	36	6	4	222	201	.....	423
Summit	82	58	67	40	9	20	1	1	159	119	5	283
Trumbull	105	67	73	56	32	35	.....	.....	210	161	.....	371
Tuscarawas	114	84	64	52	7	11	3	8	188	155	16	359
Union	55	60	37	31	9	7	.....	1	101	99	.....	200
Van Wert	58	58	33	43	3	6	5	12	99	119	13	231
Vinton	29	25	30	16	3	5	12	12	74	58	19	151
Warren	59	76	29	31	27	15	10	12	125	134	40	299
Washington	86	86	74	54	25	40	.....	2	185	182	.....	367
Wayne	64	44	63	46	5	14	.....	.....	132	104	.....	236
Williams	71	58	32	35	8	13	.....	.....	111	106	4	221
Wood	83	81	39	43	12	14	.....	.....	134	138	5	277
Wyandot	33	34	20	29	15	12	.....	.....	68	75	.....	143
Totals	7,478	6,466	4,332	3,431	1,048	1,479	433	376	13,387	11,814	239	25,440

* Condition not reported.

TABLE EXHIBITING THE DEATHS AT EACH AGE, NUMBER OF DEATHS IN EACH COUNTY, AND TOTAL NUMBER OF DEATHS IN OHIO, FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	Stillborn.		Under 1.		1 to 2.		2 to 3.		3 to 4.		4 to 5.		5 to 10.		10 to 15.		15 to 20.		20 to 25.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
Adams	3	5	10	9	6	4	3	4	4	3	3	2	6	3	1	2	6	3	5	3
Allen	7	8	39	36	7	10	3	6	4	3	3	2	9	2	1	2	2	9	2	9
Ashtabula	1	1	15	13	1	2	1	1	1	1	1	1	4	4	1	4	4	4	3	4
Ashland	1	1	14	15	6	4	2	2	4	3	3	2	3	6	3	5	7	8	2	2
Auburn	1	1	17	13	6	4	4	4	3	3	2	2	6	6	3	4	4	4	3	3
Athens	1	1	33	25	13	5	4	4	4	4	4	4	3	3	1	3	3	3	2	2
Auglaize	1	1	29	27	16	12	9	4	2	3	5	3	6	6	2	9	6	8	4	4
Belmont	4	1	18	10	9	5	6	4	4	4	3	1	4	4	1	10	9	8	4	4
Brown	1	1	33	30	14	9	12	6	11	4	11	6	3	3	4	3	10	13	13	13
Butler	4	1	9	10	4	1	2	4	3	3	4	4	6	6	3	2	4	4	1	1
Carroll	6	1	27	22	6	8	4	4	7	4	2	2	8	8	6	6	7	7	7	7
Champaign	6	1	22	23	10	2	5	3	4	4	4	4	6	6	6	5	7	4	4	8
Clarke	6	1	21	24	11	7	3	3	3	3	3	3	3	3	3	3	4	3	3	14
Clermont	1	1	16	16	2	3	3	3	2	2	1	1	2	2	3	3	10	12	10	12
Clinton	1	1	39	39	15	12	6	6	10	5	1	7	15	15	8	16	11	16	16	16
Columbiana	6	4	56	39	15	12	6	6	2	2	1	7	17	15	6	15	11	16	16	16
Coshocton	2	2	15	9	3	1	2	2	1	1	1	2	4	4	2	4	1	2	2	11
Crawford	1	1	120	94	53	29	26	17	32	15	25	18	58	57	16	25	25	18	17	17
Cuyahoga	7	4	34	44	13	11	3	11	1	1	6	4	13	7	3	9	12	4	10	10
Darke	7	2	16	19	10	10	6	6	4	4	6	2	8	9	3	6	4	6	2	2
Defiance	4	1	27	12	6	1	4	4	6	3	4	4	13	8	5	3	4	6	13	13
Delaware	1	1	26	18	6	5	4	4	2	3	4	2	13	6	5	4	4	6	13	13
Erie	3	1	16	22	9	9	4	3	2	3	3	3	10	9	4	4	2	2	5	5
Fairfield	1	1	10	6	8	4	2	3	7	6	3	1	10	7	4	3	2	8	6	6
Fayette	1	1	42	46	17	15	11	12	6	11	9	4	17	16	6	12	4	11	10	10
Franklin	3	3	13	14	7	9	4	4	4	4	1	1	3	3	2	1	15	3	4	4
Fulton	1	1	17	16	3	4	1	1	1	1	1	1	3	3	2	2	2	2	7	7
Gallia	1	1	20	17	7	4	3	4	2	2	1	1	2	2	1	3	3	3	4	4
Geauga	1	1	20	17	7	4	3	4	2	2	1	1	2	2	1	3	3	3	4	4
Greene	1	1	20	17	7	4	3	4	2	2	1	1	2	2	1	3	3	3	4	4
Guernsey	1	1	20	17	7	4	3	4	2	2	1	1	2	2	1	3	3	3	4	4

	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2
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DEATHS AT EACH AGE, NUMBER OF DEATHS IN EACH COUNTY, ETC.—Continued.

Counties.	25 to 30.		30 to 35.		35 to 40.		40 to 45.		45 to 50.		50 to 55.		55 to 60.		60 to 65.		65 to 70.		70 to 75.		75 to 80.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Adams	5	5	4	4	4	5	7	1	3	3	1	3	10	1	6	6	3	3	6	3	3	2
Allen	5	5	4	4	4	5	7	1	3	3	1	3	10	1	6	6	3	3	6	3	3	2
Ashland	5	5	4	4	4	5	7	1	3	3	1	3	10	1	6	6	3	3	6	3	3	2
Ashsabel	5	5	4	4	4	5	7	1	3	3	1	3	10	1	6	6	3	3	6	3	3	2
Athens	6	6	5	5	5	6	8	2	4	4	2	4	11	2	7	7	4	4	8	4	4	3
Anglaize	7	7	6	6	6	7	9	3	5	5	3	5	12	3	8	8	5	5	10	5	5	4
Belmont	9	9	8	8	8	9	11	4	6	6	4	6	13	4	10	10	6	6	12	6	6	5
Brown	9	9	8	8	8	9	11	4	6	6	4	6	13	4	10	10	6	6	12	6	6	5
Butler	7	7	6	6	6	7	9	3	5	5	3	5	12	3	8	8	5	5	10	5	5	4
Carroll	7	7	6	6	6	7	9	3	5	5	3	5	12	3	8	8	5	5	10	5	5	4
Champaign	7	7	6	6	6	7	9	3	5	5	3	5	12	3	8	8	5	5	10	5	5	4
Clarke	5	5	4	4	4	5	7	1	3	3	1	3	10	1	6	6	3	3	6	3	3	2
Clermont	5	5	4	4	4	5	7	1	3	3	1	3	10	1	6	6	3	3	6	3	3	2
Clinton	5	5	4	4	4	5	7	1	3	3	1	3	10	1	6	6	3	3	6	3	3	2
Columbiana	12	12	11	11	11	12	14	5	7	7	4	7	15	4	10	10	6	6	12	6	6	5
Coshocton	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Crawford	14	14	13	13	13	14	16	5	7	7	4	7	15	4	10	10	6	6	12	6	6	5
Cuyaboga	9	9	8	8	8	9	11	4	6	6	4	6	13	4	10	10	6	6	12	6	6	5
Darke	13	13	12	12	12	13	15	5	7	7	4	7	15	4	10	10	6	6	12	6	6	5
Defiance	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Delaware	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Erie	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fairfield	7	7	6	6	6	7	9	3	5	5	3	5	12	3	8	8	5	5	10	5	5	4
Fayette	5	5	4	4	4	5	7	1	3	3	1	3	10	1	6	6	3	3	6	3	3	2
Franklin	10	10	9	9	9	10	12	4	6	6	4	6	13	4	10	10	6	6	12	6	6	5
Fulton	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Gallia	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Geauga	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Greene	6	6	5	5	5	6	8	2	4	4	2	4	11	2	7	7	4	4	8	4	4	3
Guernsey	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Hamilton	36	36	35	35	35	36	42	14	20	20	13	20	48	14	33	33	20	20	42	20	20	17

DEATHS AT EACH AGE, NUMBER OF DEATHS IN EACH COUNTY, ETC.—Continued.

Counties.	25 to 30.		30 to 35.		35 to 40.		40 to 45.		45 to 50.		50 to 55.		55 to 60.		60 to 65.		65 to 70.		70 to 75.		75 to 80.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Seneca	2	6	3	1	3	3	4	4	3	5	7	3	6	4	3	7	10	6	8	13	3	
Shelby	6	6	4	7	5	4	6	4	5	8	8	4	12	4	4	6	7	7	5	9	...	
Stark	9	12	4	7	2	1	6	1	2	6	6	7	9	4	9	9	15	11	10	9	11	
Summit	4	4	3	6	2	3	3	3	6	6	6	7	4	4	7	6	3	3	9	12	10	
Trumbull	7	10	5	5	5	4	4	4	5	4	11	9	9	11	11	8	4	6	14	14	5	
Tuscarawas	3	3	10	10	6	4	4	4	4	5	2	5	4	6	6	6	6	9	9	6	8	
Union	2	2	...	...	...	...	...	...	2	4	6	3	2	...	...	...	7	4	4	6	3
Van Wert	2	10	3	7	2	3	2	5	1	5	5	6	8	4	4	1	1	2	4	2	1	
Vinton	1	4	1	...	1	4	5	5	5	3	3	3	2	4	5	3	4	3	3	2	3	
Warren	11	6	2	6	6	7	7	7	10	6	4	5	6	4	4	4	9	11	10	10	5	
Washington	6	9	3	5	10	3	3	8	5	4	1	4	4	6	6	5	12	14	16	16	3	
Wayne	9	4	3	4	2	4	3	3	2	3	2	4	4	8	4	4	7	4	11	10	10	
Williams	1	7	1	1	1	1	1	1	1	2	2	3	2	4	4	4	5	4	4	5	5	
Wood	5	11	4	3	4	10	3	...	2	6	2	2	4	3	3	2	4	4	1	4	4	
Wyandot	1	4	2	2	3	5	1	4	4	3	1	4	4	3	3	3	7	1	5	6	3	
Totals	475	592	439	476	424	410	434	387	475	402	450	355	550	374	672	426	688	494	675	474	611	463

DEATHS AT EACH AGE, NUMBER OF DEATHS IN EACH COUNTY, ETC. - Continued.

County.	80 to 85.		85 to 90.		90 to 95.		95 to 100.		100 and over.		Age unknown.		Total.		Unknown sex and age-total.	Total No. deaths both sexes, and unknown.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Adams.....	2	3	1	1	2	1	1	1	...	...	...	...	106	63	...	169
Allen.....	3	3	1	1	1	1	...	...	...	...	...	...	122	136	...	258
Ashland.....	5	9	1	1	1	1	...	...	...	...	...	...	112	85	6	204
Ashtabula.....	11	15	...	...	...	...	...	1	...	...	...	...	136	152	...	288
Athens.....	5	7	1	5	1	3	...	...	...	...	...	1	102	91	1	194
Angiaize.....	3	3	...	...	...	2	...	...	...	...	...	...	134	93	...	227
Belmont.....	12	4	5	1	3	1	1	...	1	...	...	...	188	181	...	369
Brown.....	4	4	4	1	1	...	...	...	...	...	...	...	131	113	11	255
Butler.....	3	1	2	2	3	1	...	...	...	...	...	...	191	139	...	329
Carroll.....	3	2	3	1	3	1	...	...	...	...	...	...	78	84	...	162
Champaign.....	6	7	2	1	2	1	...	...	...	...	...	...	123	101	...	224
Clarke.....	3	3	3	6	2	...	...	...	...	...	...	...	134	113	19	266
Clermont.....	9	3	3	7	1	1	1	...	...	...	...	...	166	142	...	308
Clinton.....	...	...	1	2	...	...	...	...	...	...	...	...	85	94	...	183
Columbiana.....	10	4	6	5	6	1	2	...	...	...	...	...	300	232	...	532
Coahooton.....	1	3	2	1	1	1	...	...	...	...	...	...	72	79	12	154
Crawford.....	5	...	...	...	...	...	...	1	...	...	...	...	154	132	...	286
Cuyahoga.....	16	12	6	10	3	2	1	...	...	...	...	...	634	484	...	1118
Darke.....	9	9	5	...	...	1	...	...	...	...	...	...	159	192	...	350
Defiance.....	4	3	1	...	1	...	...	...	...	...	...	...	107	84	...	191
Delaware.....	7	4	6	6	2	...	...	...	...	...	...	...	148	95	10	253
Erie.....	1	1	3	3	1	...	...	...	...	...	...	...	106	85	10	204
Fairfield.....	6	6	1	1	1	...	...	...	...	...	...	...	129	121	...	250
Fayette.....	9	...	4	2	3	...	...	...	...	...	...	...	90	69	6	165
Franklin.....	9	1	3	2	3	1	...	...	...	...	...	...	267	243	6	516
Fulton.....	9	1	1	1	1	...	...	...	...	...	...	...	73	71	...	144
Gallia.....	1	3	3	1	3	1	1	...	1	...	...	...	82	70	...	152
Geauga.....	6	3	4	4	...	...	...	...	...	...	...	...	77	60	...	137
Greene.....	6	3	5	2	2	1	...	...	...	...	...	...	126	141	1	263
Guernsey.....	...	7	2	...	...	...	...	...	...	...	...	...	106	59	...	194
Hamilton.....	14	10	3	6	...	3	...	2	...	1	...	53	1437	1304	57	2778

DEATHS AT EACH AGE, NUMBER OF DEATHS IN EACH COUNTY, ETC.—Continued.

Counties.	65 to 65.		65 to 90.		90 to 95.		95 to 100.		100 and over.		Age unknown.		Total.		Unknown sex and age—total.	Total No. deaths, both sexes, and unknown.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Hancock.....	2	1	2	1	1	1	1	1	1	1	1	1	105	114	1	219
Hardin.....	4	1	1	1	1	1	1	1	1	1	1	1	117	97	1	214
Harrison.....	4	1	3	1	1	1	1	1	1	1	1	1	89	67	1	156
Henry.....	1	1	3	1	1	1	1	1	1	1	1	1	71	68	1	139
Highland.....	4	6	5	1	1	1	1	1	1	1	1	1	144	134	1	278
Hocking.....	3	3	1	1	1	1	1	1	1	1	1	1	86	82	1	168
Holmes.....	10	1	4	2	1	1	1	1	1	1	1	1	93	87	1	180
Huron.....	2	4	4	2	2	1	1	1	1	1	1	1	163	124	1	287
Jefferson.....	7	1	2	4	1	1	1	1	1	1	1	1	90	102	1	192
Knox.....	8	4	1	1	1	1	1	1	1	1	1	1	105	78	1	183
Lake.....	6	4	1	1	1	1	1	1	1	1	1	1	118	100	1	218
Lawrence.....	1	2	3	4	1	1	1	1	1	1	1	1	63	54	1	117
Licking.....	2	1	3	4	1	1	1	1	1	1	1	1	141	119	1	260
Logan.....	5	1	4	4	1	1	1	1	1	1	1	1	138	174	1	332
Lucas.....	9	6	6	2	1	1	1	1	1	1	1	1	121	109	1	230
Madison.....	10	3	2	2	2	1	1	1	1	1	1	1	132	155	1	309
Mahoning.....	2	7	2	3	1	1	1	1	1	1	1	1	357	262	1	619
Marion.....	2	2	3	3	1	1	1	1	1	1	1	1	78	76	1	154
Medina.....	9	6	4	2	1	1	1	1	1	1	1	1	157	123	1	280
Meigs.....	5	3	2	3	2	1	1	1	1	1	1	1	83	81	1	174
Mercer.....	3	1	1	3	2	1	1	1	1	1	1	1	92	89	1	181
Miami.....	5	1	4	3	1	1	1	1	1	1	1	1	107	123	1	230
Monroe.....	14	4	3	1	1	1	1	1	1	1	1	1	96	95	1	191
Montgomery.....	14	4	3	1	1	1	1	1	1	1	1	1	169	118	1	286
Morgan.....	2	5	2	3	1	1	1	1	1	1	1	1	113	112	1	225
Morrow.....	7	3	3	4	1	1	1	1	1	1	1	1	574	349	1	923
Muskingum.....	11	2	4	5	1	1	1	1	1	1	1	1	65	84	1	149
Noble.....	3	1	4	1	1	1	1	1	1	1	1	1	233	168	1	401
Ottawa.....	1	1	1	1	1	1	1	1	1	1	1	1	65	49	1	114
													72	61		133

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NATIVITY OF DECEASED PERSONS—Continued.

County.	United States.		Austria.		British American and Canada.		Denmark.		England and Wales.		France.		Germany.		Holland and Belgium.		Ireland.		Italy.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Freble	85	115	.....	.....	.....	.....	.....	.....	1	.....	1	.....	3	.....	.....	.....	1	.....	.....	.....
Putnam	92	64	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	11	.....	.....	.....	.....	.....	.....	.....
Richland	102	103	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
Ross	134	126	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9	.....	.....	.....	.....	.....	.....	.....
Sandusky	125	109	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18	.....	.....	.....	.....	.....	.....	.....
Scioto	135	133	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19	.....	.....	.....	.....	.....	.....	.....
Seneca	102	103	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19	.....	.....	.....	.....	.....	.....	.....
Shelby	83	88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....	.....	.....
Stark	160	158	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17	.....	.....	.....	.....	.....	.....	.....
Summit	126	104	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
Trumbull	170	135	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14	.....	.....	.....	.....	.....	.....	.....
Tuscarawas	162	133	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	.....	.....	.....
Union	83	92	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....
Van Wert	64	51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	.....	.....	.....
Vinton	104	106	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
Warren	148	155	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	.....	.....	.....	.....	.....	.....	.....
Washington	116	92	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	.....	.....	.....	.....	.....	.....	.....
Wayne	104	98	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	.....	.....	.....	.....	.....	.....	.....
Williams	112	125	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
Wood	65	64	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	.....	.....	.....	.....	.....	.....	.....
Wyandot .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....
Total	10,414	9,600	18	6	41	33	8	.....	281	315	54	46	1,004	676	7	7	438	308	2	2

NATIVITY OF DISCARDED PERSONS--Continued.

Countries.	Russia.		Scotland.		Sweden and Norway.		Switzerland.		Other countries.		Unknown.		Colored.		Total.		Sex unknown.	Total deaths.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Adams	106	63	.....	169
Allen	122	136	.....	258
Ashland	112	86	6	204
Ashland	136	152	.....	288
Athens	102	91	1	194
Auglaise	134	93	.....	227
Belmont	188	181	.....	369
Brown	131	113	11	255
Butler	191	138	.....	329
Carroll	78	84	.....	162
Champaign	193	101	.....	294
Clarke	134	113	19	266
Clermont	166	142	.....	308
Clinton	85	98	.....	183
Columbiana	300	232	.....	532
Coshoccon	73	70	12	154
Crawford	154	132	.....	286
Cuyahoga	634	484	.....	1,118
Dart	138	192	.....	330
Defiance	107	84	.....	191
Delaware	148	96	10	253
Erie	104	86	.....	204
Fairfield	129	121	.....	250
Fayette	90	69	6	155
Franklin	267	243	6	516
Fulton	73	71	.....	144

NATIVITY OF DECEASED PERSONS—Continued.

Counties.	Rosaire.		Scotland.		Sweden and Norway.		Switzerland.		Other countries.		Unknown.		Colored.		Total.		Sex unknown.	Total deaths.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Gallia.....	4	1	7	11	68	70	.....	152
Geauga.....	8	6	.....	.....	77	60	.....	127
Greene.....	136	141	1	265
Guernsey.....	106	89	.....	194
Hamilton.....	227	239	55	61	1,437	1,304	37	2,774
Hancock.....	1	1	.....	.....	105	114	.....	219
Hardin.....	117	97	.....	214
Harrison.....	169	67	.....	156
Henry.....	2	9	.....	.....	71	68	.....	139
Highland.....	144	134	.....	278
Hocking.....	86	82	.....	163
Holmes.....	93	67	.....	180
Huron.....	163	124	.....	287
Jackson.....	90	102	.....	192
Jefferson.....	106	78	.....	183
Knox.....	118	100	.....	218
Lake.....	63	54	.....	117
Lawrence.....	141	119	.....	260
Licking.....	158	174	.....	332
Legan.....	121	109	.....	230
Lorain.....	152	156	2	309
Lucas.....	357	262	619
Madison.....	78	76	154
Mahoning.....	157	123	280
Marion.....	63	91	174

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	4	8	73	35	2	52	36	96	41	550	494	418	379	13,357	11,814	239	95,440
Medina															92	89	181
Melba													10	10	107	123	220
Merced											9	6	2	9	96	95	.....	191
Miami											5				168	118	.....	226
Monroe					1	5					4	1		9	113	112	.....	225
Montgomery	5			7									11	16	574	349	.....	923
Morgan											1	4			65	84	.....	149
Morrow													1		106	95	.....	196
Muskegon	3												1	1	213	168	.....	401
Noble											3				65	49	.....	114
Ottawa											1				72	61	.....	*133
Panama					2	1							3	4	57	89	.....	169
Parkland .....																	.....	168
Perry											1	5			113	105	.....	318
Pickaway											2		4	9	92	113	14	219
Pike	4										4	2	8	5	96	62	.....	169
Portage	1	1									1		1	1	91	114	.....	205
Preble											2	1	3	6	104	126	.....	230
Putnam											2				110	93	.....	203
Richland															111	117	2	230
Ross											7	4	13	20	168	170	.....	338
Sandusky											1	3		2	159	127	.....	286
Seloto							1						14	6	161	145	.....	306
Seneca								2							125	124	.....	247
Shelby											2		7	4	123	114	.....	237
Summit	3	1			7	3					17	16	2		232	201	.....	493
Tenness	2										2		4		159	119	5	283
Trumbull	5	3										1	3	1	210	161	.....	371
Tufts								7				1			165	155	16	359
Union													3	4	99	89	.....	200
Van Wert	1												3		101	119	13	231
Vinton													2	4	99	58	19	151
Warren											1	5			74	134	40	299
Washington											4	18	12	7	125	136	.....	367
Wayne	3	x											9	8	125	104	.....	236
Williams							1	3			1				123	106	4	221
Wood											2	3			111	136	5	277
Wyandot	1	1			3	1									69	75	.....	143
Totals	4	8	73	35	2	.....	52	36	96	41	550	494	418	379	13,357	11,814	239	95,440

TABLE SHOWING THE OCCUPATION OF DECEASED PERSONS AT TIME OF DEATH IN EACH COUNTY FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	Artists.		Bakers and confectioners.		Bankers.		Blacksmiths.		Bricklayers and plasterers.		Book-binders.		Carpenters and cabinet-makers.		Clerks and book-keepers.		Clergymen.		Doctors.		Editors.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Adams																						
Allen																						
Ashland																						
Ashtabula																						
Athens																						
Auglaize																						
Belmont	1																					
Brown																						
Butler																						
Carroll																						
Champaign																						
Clarke																						
Clermont																						
Clinton																						
Columbiana																						
Coshocton																						
Crawford	2		3	1	1																	
Cuyahoga																						
Darke																						
Defiance																						
Delaware																						
Erie																						
Fairfield																						
Fayette																						
Franklin			1		2																	

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Meigs	37	16	29	2	1	1	6	50	1	5	21	3	30	2
Marion	31		29	6	1	1								
Marshall	30		30	1		1								
Miami	47		29											
Marion	20		69											
Moulton	67		44	1	6	4	1	7	1		1			
Morgan	27	4	34					1						
Morrow	49		34											
Mulligan	66		54			3								
Noble	34		36		1	3	1							
Ottawa	11		4											
Pandling	29	2	4											
Perry	30		15	7			4							
Pickaway	27		12											
Pike	13		4	8	1	9		1						
Portage	46		56	24										
Preble	33		43	2	1	2	2	3						
Putnam	42		24											
Richland	31		2											
Ross	43	5	66	3	1	2	1							
Sandusky	26		5	7	1									
Scioto	34	2	6	9										
Seneca	45		49		2	1		1						
Shelby	67		51	9		3								
Stark	44	1	34			1								
Summit	72		71				6							
Trembule	43		70	1	1	1	5				2			
Tuscarawas	43		43											
Union	36		45											
Van Wert	39		53											
Vinton	31		2											
Warren	44		39											
Washington	65	6												
Wayne	51		64	1			2							
Williams	32		27	3		1								
Wood	53		64					1						
Wyandot	37		34	5	1									
Totals	3444	127	9 3654	19 277 46	2 67	161	4 87	50	1 5	21	3	30	2	

* No report.
† A detailed report not having been received from all of the countries, the totals in detail can not therefore equal the grand totals.

TABLE SHOWING THE OCCUPATION OF DECEASED PERSONS AT TIME OF DEATH—Continued.

Counties.	Public officers.		Shoemakers.		Tailors and seamstresses.		Teachers.		Tinnern.		Laborers.		Other occupations.		No occupation, including children.		Totals.		Sex unknown.	Total deaths.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Adams	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	106	63	.....	169
Allen	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	122	136	.....	254
Ashland	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	112	86	6	204
Ashland	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	136	152	.....	288
Ashland	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	102	91	1	194
Angela	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	134	93	.....	227
Belmont	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	186	181	.....	369
Brown	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	131	113	11	255
Butler	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	191	134	.....	324
Carroll	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	78	84	.....	162
Champaign	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	133	101	.....	234
Clarke	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	134	113	19	266
Clermont	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	166	142	.....	308
Clinton	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	85	98	.....	183
Columbiana	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	300	232	.....	532
Coaston	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	72	70	12	154
Crawford	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	154	132	.....	286
Darke	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	634	484	.....	1114
Deane	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	158	192	.....	350
Delaware	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	107	84	.....	191
Erie	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	148	95	10	253
Fairfield	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	108	86	10	204
Fayette	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	193	121	260
Franklin	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	90	59	6	155
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	267	243	6	516

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TABLE SHOWING THE OCCUPATION OF DECEASED PERSONS AT TIME OF DEATH—Continued.

Counties.	Public officers.		Boemakers.		Tailors and seam- stresses.		Teachers.		Thiwers.		Laborers.		Other occupa- tions.		No occupation, in- cluding children.		Totals.		Sex unknown.	Total deaths.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Preble															36	76	104	126		230
Putnam															63	63	110	93		203
Richland															57	112	111	117	9	230
Rosa															76	89	168	170		338
Sandusky															129	125	159	127		285
Scioto															93	108	161	145		306
Seneca															51	93	125	122		247
Shelby															65	46	123	114		237
Stark															19	132	222	201		432
Summit															68	77	159	119	5	2-3
Trumbull															74	87	210	161		371
Tuscarawas															101	85	1-8	155	16	359
Union															50	54	101	99		200
Van Wert															52	64	90	119	13	231
Vinton															31	56	74	68	19	161
Warren															59	96	125	134	40	299
Washington															73	168	185	189		387
Wayne															42	38	132	104		236
Williams															69	74	111	106	4	221
Wood															62	68	134	134		272
Wyandot															9	9		13	9	

TABLE SHOWING THE NUMBER OF DEATHS IN EACH MONTH AND IN EACH COUNTY IN OHIO, AS REPORTED BY PROBATE JUDGES, FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	1877. April.		1877. May.		1877. June.		1877. July.		1877. August.		1877. September.		1877. October.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Adams	9	3	7	7	6	5	2	2	4	4	15	3	18	10
Allen	11	12	13	12	10	9	5	7	13	19	11	20	13	12
Ashland	8	6	9	9	7	3	8	6	6	4	15	10	11	9
Ashtabula	11	12	6	7	9	8	7	8	10	11	9	17	14	14
Athens	7	9	7	3	5	5	5	13	8	5	7	9	8	10
Auglaize	13	7	9	5	6	5	8	5	14	12	16	10	12	8
Belmont	18	14	11	19	20	9	12	14	15	14	16	17	22	16
Brown	23	8	11	8	5	8	13	7	6	9	7	11	11	11
Butler	17	10	10	10	15	14	23	11	12	9	22	10	14	7
Carroll	9	4	6	8	5	10	4	.....	8	3	6	9	5	6
Champaign	13	8	10	6	7	5	7	7	13	14	11	12	8	10
Clarke	7	8	10	7	9	5	16	11	10	7	14	10	9	9
Clermont	12	7	8	5	11	5	16	14	16	11	15	13	19	7
Clinton	7	10	7	5	5	12	8	8	3	10	11	13	8	6
Columbiana	25	14	20	11	18	13	16	12	14	13	27	24	23	22
Coshocton	6	1	2	5	3	7	6	5	4	7	4	5	3	5
Crawford	10	12	9	11	4	8	8	8	15	12	23	7	14	14
Cuyahoga	34	29	34	29	41	33	66	34	77	41	56	30	67	58
Darke	9	13	14	14	10	8	14	11	16	12	14	23	12	21
Defiance	6	6	6	4	4	6	4	4	13	11	16	7	8	13
Delaware	6	4	9	6	10	4	9	5	23	17	19	8	7	1
Erie	11	13	6	4	6	6	8	2	14	13	14	7	6	1
Fairfield	3	5	6	7	10	4	10	5	6	21	4	8	22	1
Fayette	3	3	5	3	6	3	6	4	7	5	4	4	9	1
Franklin	19	18	15	16	16	13	26	18	18	23	22	22	18	1
Fulton	3	5	5	2	3	3	9	8	11	8	13	9	3	1
Gallia	5	11	4	2	6	3	7	8	4	2	11	8	4	1
Geauga	4	4	6	5	9	4	5	2	4	4	6	2	5	1
Greene	4	8	4	6	8	8	12	13	12	10	11	12	16	1

NUMBER OF DEATHS IN EACH MONTH IN OHIO—Continued.

Counties.	1877. April.		1877. May.		1877. June.		1877. July.		1877. August.		1877. September.		1877. October.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Guernsey	12	7	10	4	8	7	7	7	12	2	9	4	8	5
Hamilton	94	80	80	66	141	79	103	103	136	93	101	78	121	95
Hancock	13	11	4	3	5	6	6	11	13	18	13	18	9	10
Hardin	2	4	6	2	3	5	9	6	8	8	8	6	11	8
Harrison	6	4	5	7	10	6	6	5	7	8	6	3	7	6
Henry	7	6	4	7	6	3	9	9	5	8	7	9	7	6
Highland	10	9	8	8	5	7	10	10	17	9	9	8	14	16
Hocking	9	2	8	5	8	4	9	4	8	15	5	5	10	11
Holmes	4	5	10	7	6	8	14	14	13	10	6	7	6	6
Huron	14	11	10	17	11	5	14	7	15	7	19	13	12	14
Jackson	6	10	6	5	8	7	7	10	6	6	11	7	7	8
Jefferson	7	4	6	2	7	3	11	5	8	6	10	12	10	9
Knox	8	8	6	5	6	11	11	7	13	13	10	8	11	9
Lake	6	2	2	8	7	1	5	5	9	3	5	2	5	3
Lawrence	14	4	12	16	8	4	8	13	13	13	7	12	12	6
Licking	13	10	14	15	11	9	7	12	16	26	12	18	18	22
Logan	11	11	12	7	10	9	14	6	10	12	11	13	10	6
Lorain	12	7	16	14	10	8	13	10	12	17	11	20	8	14
Lucas	26	17	25	15	25	24	36	22	35	25	39	19	30	18
Madison	3	5	9	4	3	7	9	8	11	8	10	10	5	11
Mahoning	12	10	9	9	12	10	7	6	14	6	14	9	12	11
Marion	3	6	3	5	4	4	3	6	10	5	13	12	11	10
Medina	1	3	8	8	4	6	6	4	7	7	8	11	10	6
Meigs	5	8	2	3	7	5	9	6	9	15	7	11	5	9
Mercer	3	8	4	4	4	6	5	10	7	15	1	11	5	9
Miami					4	6	5	10	7	15				

Muskingum	15	9	15	13	22	10	18	12	26	18	19	12	19	18
Noble	5	6	8	4	8	2	4	5	3	3	2	6	2	4
Ottawa	5	1	3	4	2	3	4	5	10	4	9	3	9	7
Paulding	5	12	3	4	6	8	1	3	9	9	5	9	5	5
Perry	8	4	10	3	7	6	5	7	6	8	10	8	10	9
Pickaway	10	7	10	6	7	11	6	10	8	6	6	6	4	11
Pike	3	.....	7	6	6	8	5	4	6	2	7	3	8	6
Portage	3	4	9	9	3	7	7	5	13	9	5	12	8	10
Preble	7	13	9	5	10	13	8	13	8	12	9	11	9	9
Putnam	11	5	5	5	5	3	7	4	18	16	14	11	7	4
Richland	13	2	7	12	10	11	7	10	15	14	10	15	7	5
Ross	15	11	6	13	12	10	20	10	18	19	4	12	25	13
Sanduaky	11	5	22	9	8	7	12	16	10	14	23	16	9	13
Scioto	17	12	9	13	14	10	11	12	19	13	11	11	10	10
Seneca	8	6	9	9	8	5	8	7	13	12	14	24	8	8
Shelby	7	6	6	4	3	5	8	8	9	9	18	23	8	11
Stark	19	16	18	15	16	14	17	16	17	18	13	12	20	17
Summit	13	11	12	10	14	11	10	6	17	12	5	9	13	11
Trumbull	15	9	7	15	8	5	16	5	14	19	23	15	25	16
Tuscarawas	20	10	10	6	13	10	13	10	17	17	19	8	14	6
Union	7	4	9	6	8	10	9	6	11	10	9	16	9	7
Van Wert	10	12	2	2	1	7	9	9	13	14	14	16	12	11
Vinton	8	2	5	2	4	9	5	3	8	2	3	4	8	4
Warren	14	16	13	10	8	13	11	9	10	9	9	16	10	12
Washington	18	21	10	13	17	14	11	13	14	16	15	16	12	13
Wayne	8	10	12	10	7	5	8	4	10	16	10	8	8	1
Williams	9	9	7	15	2	3	5	4	9	5	19	8	11	14
Wood	6	8	10	6	9	7	10	5	11	13	19	20	18	18
Wyandot	4	6	3	3	4	7	5	7	7	7	6	2	11	9
Totals	988	810	877	774	890	753	1012	842	1242	1095	1221	1074	1148	1001

NUMBER OF DEATHS IN EACH MONTH IN OHIO—Continued.

Counties.	1877. November.		1877. December.		1878. January.		1878. February.		1878. March.		Total.		Unknown.	Total number of deaths, both sexes and unknown.
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.		
Adams.....	7	5	6	5	10	2	11	8	11	9	106	63	...	169
Allen.....	6	12	6	4	14	12	14	8	12	9	122	136	...	258
Ashland.....	13	5	8	8	10	4	9	8	8	14	112	86	6	204
Ashtabula.....	9	9	13	18	17	21	14	12	17	15	136	152	...	268
Athens.....	9	.....	9	10	14	8	9	11	14	8	102	91	1	194
Anglaize.....	8	9	8	7	12	7	9	11	19	7	134	93	...	227
Belmont.....	12	12	16	7	16	17	15	21	15	21	188	181	...	369
Brown.....	8	6	8	11	12	12	10	13	17	9	131	113	11	255
Butler.....	15	10	10	10	17	16	17	16	19	15	191	138	...	329
Carroll.....	5	7	4	12	6	9	14	9	6	7	78	84	...	162
Champaign.....	14	6	8	5	9	10	12	6	11	12	123	101	...	224
Clarke.....	6	12	10	11	19	8	11	13	13	12	134	113	19	266
Clermont.....	13	15	13	11	17	15	12	20	14	19	166	142	...	308
Clinton.....	7	2	6	3	6	5	12	15	5	9	85	98	...	183
Columbiana.....	27	23	31	24	30	21	33	26	36	29	300	232	...	532
Coshocton.....	12	3	5	9	7	8	7	8	13	7	72	70	12	154
Crawford.....	13	9	21	13	8	12	10	8	19	18	154	132	...	286
Cuyahoga.....	63	63	45	45	53	41	47	46	47	35	634	484	...	1114
Darke.....	6	13	12	15	15	19	17	25	15	18	158	192	...	350
Defiance.....	5	8	9	8	8	4	11	6	13	10	107	84	...	191
Delaware.....	10	5	11	12	13	9	15	10	16	6	148	95	10	253
Erie.....	7	4	9	9	6	7	9	5	12	13	108	86	10	204
Fairfield.....	14	10	10	12	14	9	9	20	21	10	129	121	...	250
Fayette.....	9	8	11	8	13	3	9	5	8	9	90	59	6	155
Franklin.....	23	20	25	24	19	33	26	14	41	27	267	243	6	516
Fulton.....	3	2	3	4	7	13	7	4	6	7	73	71	...	144
Gallia.....	3	6	10	7	10	4	6	8	12	9	82	70	...	152
Geauga.....	7	3	7	7	7	6	11	3	6	2	77	50	...	127
Greene.....	12	12	9	16	13	18	11	12	14	12	126	141	1	268

Guernsey	8	11	6	8	12	3	3	11	10	14	105	89	.....	184
Hamilton	95	80	100	75	•100	155	166	200	200	200	1437	1304	37	•2778
Hancock	6	8	10	7	8	7	9	6	9	9	105	114	.....	219
Hardin	6	8	9	6	14	10	15	16	20	12	117	97	.....	214
Harrison	7	6	5	4	5	3	13	4	12	11	89	67	.....	156
Henry	3	4	4	6	9	3	4	5	6	2	71	68	.....	139
Highland	9	16	14	4	17	13	13	14	19	20	144	134	.....	278
Hocking	6	7	3	6	5	6	9	6	7	11	86	82	.....	168
Holmes	16	4	4	5	5	7	4	5	8	9	93	87	.....	120
Huron	10	7	6	7	19	12	15	12	18	12	163	124	.....	257
Jackson	4	11	8	9	7	8	8	11	12	10	90	102	.....	192
Jefferson	10	9	9	3	8	8	9	8	10	9	105	78	.....	183
Knox	8	7	8	3	13	6	9	6	15	17	118	100	.....	218
Lake	1	6	2	8	6	5	6	6	9	5	63	54	.....	117
Lawrence	14	7	10	9	10	7	16	13	17	15	141	119	.....	260
Licking	9	10	11	11	16	15	14	14	17	12	158	174	.....	332
Logan	5	4	2	13	8	12	17	6	11	10	121	109	.....	230
Lorain	13	12	14	13	16	12	14	14	13	14	152	155	2	309
Lucas	18	23	32	16	34	25	24	30	33	28	357	262	.....	619
Madison	8	2	8	3	6	3	5	8	1	7	78	76	.....	154
Mahoning	13	8	8	9	18	16	18	15	20	14	157	123	.....	290
Marion	9	8	4	7	9	7	6	12	8	9	83	91	.....	174
Medina	8	8	7	7	12	11	9	7	12	12	92	89	.....	141
Meigs	3	9	11	14	18	13	11	14	20	16	107	123	.....	230
Meer	4	9	10	5	11	6	16	8	13	9	96	95	.....	191
Miami	19	12	13	7	13	10	15	9	20	16	168	118	.....	246
Monroe	8	10	11	7	15	8	16	15	11	21	113	112	.....	225
Montgomery	41	26	61	27	62	33	59	25	54	34	574	349	.....	923
Morgan	5	6	5	9	5	5	4	16	11	8	65	84	.....	149
Morrow	15	8	12	2	10	10	13	6	10	8	108	88	.....	196
Muskingum	21	15	12	13	18	14	24	16	24	18	233	168	.....	401
Noble	6	5	6	3	8	4	6	3	5	4	65	49	.....	114
Ottawa	7	6	3	7	7	5	4	10	9	3	72	61	.....	133
Paulding	8	8	3	10	9	9	7	3	3	9	67	89	.....	156
Perry	14	9	11	10	14	13	11	9	7	12	113	105	.....	218
Pickaway	7	9	5	12	11	13	9	4	9	11	92	113	14	219
Pike	7	6	9	5	13	6	12	7	13	9	96	62	.....	158
Portage	4	3	10	14	10	15	7	13	12	13	91	114	.....	205
Preble	6	7	7	4	7	11	12	15	12	13	104	126	.....	230
Putnam	6	6	7	12	6	10	14	7	10	10	110	93	.....	203
Richland	6	7	4	10	14	9	11	10	6	12	111	117	2	230
Ross	8	9	12	18	19	19	14	13	15	23	168	170	.....	338

NUMBER OF DEATHS IN EACH MONTH IN OHIO—Continued.

Counties.	1877. November.		1877. December.		1878. January.		1878. February.		1878. March.		Total.		Unknown.	Total number of deaths, both sexes and unknown.
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.		
Sandusky	12	5	14	11	12	8	11	13	12	159	127	.....	286
Scioto	16	11	19	12	10	14	14	14	13	161	145	.....	306
Seneca	15	10	6	11	10	8	14	8	8	125	122	.....	247
Shelby	9	11	12	8	12	4	9	13	16	123	114	.....	237
Stark	15	13	22	20	20	18	19	20	23	222	201	.....	423
Summit	7	6	18	13	18	11	9	16	10	159	119	5	283	
Trumbull	18	14	18	13	28	17	17	22	16	210	161	.....	371
Tuscarawas	10	10	11	11	17	17	23	20	27	188	155	16	359	
Union	5	8	9	8	9	8	5	6	11	101	99	.....	200
Van Wert	6	9	7	11	6	9	6	10	13	99	119	13	231	
Vinton	4	8	7	5	8	3	6	6	10	74	58	19	151	
Warren	13	10	9	14	7	7	6	12	9	125	134	40	299	
Washington	12	13	6	13	25	13	21	19	16	185	182	.....	367
Wayne	13	6	11	6	12	11	13	14	14	132	104	.....	236
Williams	10	9	10	10	14	14	6	7	8	111	106	4	221	
Wood	12	11	9	11	14	11	14	5	11	134	138	5	277	
Wyandot	4	3	4	3	3	9	9	6	10	68	75	.....	143
Totals.....	1008	892	1031	943	1248	1102	1280	1208	1462	1320	13,387	11,814	239	25,440

* Estimated, the report from Hamilton county being incomplete.

VITAL STATISTICS—NOSOLOGY.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF DEATHS AND THE CAUSES OF DEATH, IN EACH COUNTY, FOR THE YEAR ENDING MARCH 31, 1878.

NOMENCLATURE AND CLASSIFICATION OF DISEASES.

CLASSES.

- | | |
|------------------------------|-----------------------------|
| 1. ZYMOTIC DISEASES. | IV. DEVELOPMENTAL DISEASES. |
| II. CONSTITUTIONAL DISEASES. | V. VIOLENT DEATHS. |
| III. LOCAL DISEASES. | |

ORDERS.

- | | |
|---|---|
| I.—1. Miasmatic Diseases.
2. Enthetic Diseases.
3. Dietic Diseases.
4. Parasitic Diseases. | IV.—1. Developmental Diseases of Children.
2. Developmental Diseases of Adults.
3. Developmental Diseases of Old People.
4. Diseases of Nutrition. |
| II.—1. Diathetic Diseases.
2. Tubercular Diseases. | |
| III.—1. Diseases of Nervous System.
2. Diseases of Organs of Circulation.
3. Diseases of Respiratory Organs.
4. Diseases of Digestive organs.
5. Diseases of Urinary Organs.
6. Diseases of Generative Organs.
7. Diseases of Organs of Locomotion.
8. Diseases of Integumentary System. | V.—1. Accident or Negligence.
2. Battle.
3. Homicide.
4. Suicide.
5. Execution.
6. Violent Deaths not included above. |

DISEASES.

- | | |
|---|--|
| I.—1. <i>Miasmatic, Infectious, Contagious, and Epidemic.</i>

1. Small-pox.
2. Measles.
3. Scarlatina.
4. Diphtheria.
5. Quinsy.
6. Croup.
7. Whooping Cough.
8. Typhoid Fever.
9. Erysipelas (and Phlebitis). | 10. Metria (Puerperal Fever).
11. Carbuncle.
12. Influenza.
13. Dysentery.
14. Diarrhoea.
15. Cholera Infantum.
16. Cholera.
17. Ague.
18. Remittent Fever.
19. Rheumatism.
20. Cerebro Spinal Meningitis (Spotted Fever). |
|---|--|

NOMENCLATURE AND CLASSIFICATION OF DISEASES—Continued.

I.—2. *Enthetic.*

1. Syphilis.
2. Stricture of Urethra.
3. Hydrophobia.
4. Glanders (and Malignant Pustule).

I.—3. *Dietic.*

1. Privation (Starvation).
2. Purpura and Scurvy.
3. Delirium Tremens, } Alcoholism.
4. Intemperance, }

I.—4. *Parasitic.*

1. Thrush.
2. Worms.

II.—1. *Diathetic.*

1. Gout.
2. Dropsy and Anæmia.
3. Cancer.
4. Noma (Canker).
5. Mortification.

II.—2. *Tubercular.*

1. Scrofula.
2. Tabes Mesenterica (Consumption of Bowels).
3. Phthisis (Consumption of Lungs).
4. Hydrocephalus (Dropsy of the Brain).

III.—1. *Nervous System.*

1. Cephalitis (Inflammation of the Brain).
2. Apoplexy.
3. Paralysis.
4. Insanity.
5. Chorea (St. Vitus Dance).
6. Epilepsy.
7. Tetanus.
8. Convulsions.
9. Brain Diseases.

III.—2. *Organs of Circulation.*

1. Pericarditis.
2. Aneurism.
3. Heart Diseases, etc.

III.—3. *Respiratory Organs.*

1. Epistaxis (Nose Bleed).
2. Laryngitis.
3. Bronchitis.
4. Pleurisy.
5. Pneumonia.
6. Asthma.
7. Lung Diseases, etc.

III.—4. *Digestive Organs.*

1. Gastritis (Inflammation of the Stomach).
2. Inflammation of the Bowels.
3. Ascites (Dropsy of Abdominal Cavity).
4. Ulceration of Intestines.
5. Hernia.
6. Internal Strangulation of Bowels.
7. Fistula.
8. Stomach Diseases, etc.
9. Pancreatic Diseases, etc.
10. Hepatitis.
11. Jaundice.
12. Liver Disease, etc.
13. Spleen Disease, etc.

III.—5. *Urinary Organs.*

1. Nephritis (Inflammation of the Kidneys).
2. Ischuria (Difficult Urination).
3. Bright's Disease.
4. Diabetes.
5. Calculus (Stone, Gravel, etc.).
6. Inflammation of the Bladder.
7. Kidney Diseases, etc.

III.—6. *Generative Organs.*

1. Ovarian Dropsy.
2. Diseases of the Womb, etc.

NOMENCLATURE AND CLASSIFICATION OF DISEASES—Continued.

III.—7. *Organs of Locomotion.*

1. Inflammation of the Joints.
2. Joint Diseases, etc.

III.—8. *Integumentary System.*

1. Phlegmon (Carbuncle, etc.).
2. Ulcer.
3. Skin Diseases, etc.

IV.—1. *Developmental Diseases of Children.*

1. Stillborn.
2. Infantile, Premature, etc.
3. Cyanosis.
4. Spina Bifida.
5. Other Malformations.
6. Teething.

IV.—2. *Developmental Diseases of Adults.*

1. Paramenia (Menstrual Diseases).
2. Child-Birth.

IV.—3. *Developmental Diseases of Old People.*

1. Old Age.

IV.—4. *Developmental Diseases of Nutrition.*

1. Atrophy and Debility.

V.—1. *Accident or Negligence.*

1. Fractures and Contusions.
2. Burns and Scalds.
3. Poison.
4. Drowning (and Lost at Sea).
5. Suffocation (and Strangulation).
6. Otherwise.

V.—2. Battle.

V.—3. Homicide.

V.—4. Suicide.

V.—5. Execution.

V.—6. Violent Deaths not included above.

V.—7. Sudden deaths and cause unknown and deaths, not reported elsewhere.

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE NUMBER OF DEATHS, AND THE

Counties.	Class 1.—Zymotic diseases.									
	Order 1.—Miasmatic, infectious, contagious, and epidemic.									
	1. Small-pox.		2. Measles.		3. Scarlatina.		4. Diphtheria.		5. Quinsey.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams							5	3		
Allen			5	3	3	2	5	2		
Ashland					2	2	10	6		
Ashtabula					1	1	8	11		
Athens			6	2			14	13		
Anglaize			1				2	3		
Belmont				2	2	1	15	15		
Brown							7	5		
Butler	1									
Carroll					14	16		3		
Champaign					14	13	4	1		
Clarke			1	1	8	4	3	7		
Clermont			1	2			6	3		
Clinton					1		3	3		
Columbiana	3	1	7	4	15	13	9	10		
Coshocton			1					1	1	
Crawford			1	1	6	5	22	22		
Cuyahoga		1	1		5	9	129	112	1	
Darke						3	2	9		
Defiance			1		1	1	12	7		
Delaware					16	13		1		
Erie					1	2	1	2		
Fairfield			1		8	6	5	5		
Fayette			1	3	1		3	4		1
Franklin			1		14	17	18	23		
Fulton					4	1	3	1		
Gallia										
Geauga						1				
Greene			1					4		
Guernsey			1			3	5	9		
Hamilton	1	10	2	3	3	7	38	35		
Hancock			1	3			2	2		
Hardin			2				3	4	1	2
Harrison					13	11	7	11	1	
Henry						1	5	3		
Highland				1			5	2		
Hocking							1	4	1	
Holmes			2	1	6		5	2		2
Huron							5	4		
Jackson					1	2	1	1		1
Jefferson							1	3		
Knox					1	1	15	12		
Lake						2		2		
Lawrence			2	1	3		8	6		
Licking					2	5	9	11		

NOMINOLOGY.

CAUSES OF DEATH, IN EACH COUNTY, FOR THE YEAR ENDING MARCH 31, 1878.

Class 1.—Zymotic diseases.

Order 1.—Miasmatic, infectious, contagious, and epidemic.

6. Croup.		7. Whooping-cough.		8. Typhoid fever.		9. Erysipelas.		10. Metris (puerperal fever.)		11. Carbuncle.		12. Infanusa.		13. Dysentery.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	4	4	2	9	1		1							7	1
4	4	3	1	4	7									7	7
2	5			12	7		2								1
					5	3	1			1					
5	4	1	2	7	2		1		1						1
8	13	7	2	3										1	
3	2	2		7	8	1	2							2	2
5	4	9	6	11					1			1			
4			3	9	5										
		1	2	2	1				2					1	1
3	3	1	2		2	2									
5	1	1	1	4	4		1		2					2	1
4	1	4	3	14	9	1								1	1
2	2			3	7				1			1			
3	2	1	3	10	13		2		3					3	4
3	2	1	1	2	1		1								
5	2	1	1	8	5	1									2
16	1	9	11	21	21	2	2		1					15	9
4	4	1	7	5	12	1								15	3
5					6										1
	1	1		8	6	1	1							20	7
1	1	7	3	6	6									10	10
4	3			2	2										
1		2	11	5	3	1	1								
5		1	8	8	9		2								
1	1	1													
6	2	2	4	2	4										
1				3	4	1			1						
	2	3	3	6	4		1								4
1				5										1	
13	14	11	19	31	25	5	6		2					8	4
7	5		1	9	10				1			2	3	4	2
6		5	5	9	5							1	1		3
2		3	2	5	2				1						
4	1			7	5		1		1						1
				13	10	2								5	
5	1	1	3	3	7		1		1	1		1		2	2
2	5	7	2	2	5	2	2		2	2	1	1		3	6
1	2	9	7	4	8	1	1								1
1	1	8	7	4	2										
			1	5	6					1		1			
2	2		2	9	8									1	1
2				2	3		1							1	1
3		7	7	11	6	1						3	2	4	4
		7	9	3	10	1	1								

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE NUMBER OF

Counties.	Class 1.—Zymotic diseases.									
	Order 1.—Miasmatic, infectious, contagious, and epidemic.									
	1. Small-pox.		2. Measles.		3. Scarlatina.		4. Diphtheria.		5. Quinsy.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Logan			1		17	13				
Lorain			1		14	7	19	15		
Lucas			2	5	12	9	29	28		
Madison			1		3	4	6	11		
Mahoning	2	1	1		15	14		1	1	
Marion					7	4	2	6		
Medina					1	1	1	1		
Meigs						1	1	3		
Mercer			2	1	1	1	1			
Miami			1	2	1	1	4	2		
Monroe							6	15		
Montgomery					1	1	12	5		1
Morgan			1	3	1		3	4		
Morrow					14	9	5	4	2	
Muskingum			4	4	1	2	7	17		
Noble			1	1		1	2	2		
Ottawa					1		12	13	1	1
Paulding			2	8			2	6		
Perry							8	12		
Pickaway			1				2	1		
Pike								2		
Portage				2		1	3	2		
Preble					2	2	1	1	5	6
Putnam					2			1	1	
Richland			2		1		2	2		
Ross			2		1	1	5	11		
Sandusky			1	2	4	2	16	14		
Scioto						2	1			
Seneca							7	11		
Shelby			4	2		2		4		
Stark			1		3		4	12		
Summit					7	1	13	14		
Trumbull	1				14	12	9	4		
Tuscarawas			4		19	14	4	11		
Union					6	3	1	7		
Van Wert			3	3			6	3		
Vinton							1	2		
Warren	2			1				7	1	
Washington	1		11	7		2	4	6		
Wayne			1		2	2		3		1
Williams			5	4	5	8	29	14		
Wood			1	1	1	2	11	8		
Wyandot					1					
Totals.....	11	13	92	73	302	264	635	672	16	15

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, IN EACH COUNTY, ETC.—Continued.

Class 1.—Zymotic diseases.

Order 1.—Miasmatic, infectious, contagious, and epidemic.

6. Croup.		7. Whooping-cough.		8. Typhoid fever.		9. Erysipelas.		10. Metria (puerperal fever).		11. Carbuncle.		12. Influenza.		13. Dysentery.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	1	2		5	11	1	4		1						
4	4	1	3											5	1
1	1	3		8	3	1				1		1	3	5	4
		1	4	3	4	1	1							2	1
			5	6	6	1								1	1
2	3		1	10	10									2	2
				4	5	1								1	1
1	2	4	8	3	5		4		1						1
2	2		3	2	5		2								
6	1	4	2	5	4	1	1							1	
3				5	2	2	1					1		1	
9	6	12	9	9	22	3			2					4	3
1	3		1	1		2	2								
		2	2	6		2	2			2				3	1
4	4	10	12	10	4	1	2							2	1
				2	1									1	1
			1	2	5				1					1	1
			3	9	4		2							1	1
			5	2		1								1	2
2	2	8	8	3		2	1							1	
4	3		2	4	1	1	1								2
1	2			4	5	1	1							5	2
				1	10	7	5								
2	2	2		4	2	3	1							1	
1				6	1	2	1		1						
1	1	5	5	1	1		2							6	4
5	5	6	3	18	9	1								8	8
4	1	4	3	7	11	1	1							8	1
11	9	1	2	7	18	1			1					2	
3	2			9	8	2	1					1			
3		5	2	4	8	1									2
		1		1	7	1	1							1	1
2	1	4	3	7	5	3	1							2	1
	1			2	2				1						
2			1	4	7		1		1					1	4
1	5	1	6		11	1	1		1					2	1
1	1		7	1	1	1	1					1	1	2	
4	5			2	4		2							2	2
3	3	1	1	4					2					2	2
3	2			10		3	1		1					1	2
1		1	1	3	3		4								
1	4		3	11	13	1	3		1					1	1
1	2		1	6	5										
246	192		273	503	512	76	76		34	7	2	14	13	103	133

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE

Counties.	Class 1.—Zymotic diseases.							
	Order 1.—Miasmatic, infections, contagious, and e							
	14. Diarrhoea.		15. Cholera infantum.		16. Cholera.		17. Ague.	
	M.	F.	M.	F.	M.	F.	M.	F.
Adams	1	.....	1	1	1	.....	.....	.....
Allen	7	1	6	3	.....	1	.....	1
Ashland	1	1	4	1	.....	.....	.....	.....
Ashtabula .....	.....	1	.....	3	.....	.....	.....	.....
Athens .....	.....	1	3	.....	.....	.....	.....	.....
Auglaize	2	1	2	1	.....	.....	.....	.....
Belmont	2	.....	2	2	1	.....	.....	.....
Brown	3	1	4	4	.....	.....	.....	1
Butler	3	.....	2	1	.....	.....	.....	.....
Carroll .....	.....	.....	4	.....	.....	.....	.....	.....
Champaign .....	.....	.....	9	4	.....	.....	.....	.....
Clarke	1	.....	6	3	.....	.....	.....	.....
Clermont	3	3	1	1	.....	.....	.....	.....
Clinton	1	.....	3	3	.....	.....	.....	.....
Columbiana .....	.....	.....	16	9	.....	.....	.....	.....
Coshocton .....	.....	1	3	1	.....	.....	.....	.....
Crawford	1	.....	7	3	.....	.....	.....	.....
Cuyahoga	15	10	29	24	1	.....	.....	1
Darke	2	1	4	3	.....	.....	2	2
Defiance	1	1	8	6	.....	.....	2	1
Delaware .....	.....	.....	3	1	.....	1	.....	.....
Erie	10	5	3	2	.....	.....	.....	.....
Fairfield	1	1	3	3	.....	.....	.....	2
Fayette	2	.....	1	.....	.....	.....	.....	.....
Franklin .....	.....	.....	2	5	.....	.....	3	1
Fulton .....	.....	.....	.....	1	.....	.....	2	.....
Gallia	15	13	.....	.....	.....	.....	.....	.....
Geauga .....	.....	.....	2	.....	.....	.....	.....	.....
Greene	1	.....	2	1	.....	.....	.....	.....
Guernsey	5	.....	10	13	.....	.....	.....	.....
Hamilton	12	7	20	17	3	3	1	.....
Hancock	5	5	3	8	.....	.....	.....	.....
Hardin	1	2	4	5	.....	.....	.....	1
Harrison	1	2	2	2	.....	.....	.....	.....
Henry .....	.....	.....	5	5	.....	.....	2	1
Highland .....	.....	.....	1	1	.....	.....	.....	.....
Hocking	1	.....	6	5	.....	.....	.....	.....
Holmes	4	3	3	2	.....	.....	2	1
Huron	1	1	7	2	.....	.....	1	1
Jackson .....	.....	.....	2	4	.....	.....	.....	.....
Jefferson .....	.....	1	2	2	.....	.....	.....	.....
Knox .....	.....	1	3	4	.....	.....	.....	.....
Lake .....	.....	.....	5	.....	.....	.....	.....	.....
Lawrence	4	6	12	10	.....	.....	.....	.....
Licking	2	1	13	6	.....	.....	.....	.....
Logan .....	.....	.....	4	2	.....	.....	5	3

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 1.—Zymotic diseases.

[illegible]

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE

Counties.	Class 1.—Zymotic diseases.							
	Order 1.—Miasmatic, infectious, contagious, and							
	14. Diarrhoea.		15. Cholera infantum.		16. Cholera.		17. Ague.	
	M.	F.	M.	F.	M.	F.	M.	F.
Lorain	2	.....	10	8	.....	.....	.....	.....
Lucas .....	.....	.....	18	11	.....	.....	.....	.....
Madison .....	.....	.....	3	4	.....	.....	2	.....
Mahoning	2	.....	13	5	.....	.....	.....	.....
Marion .....	.....	.....	5	5	.....	.....	.....	.....
Medina .....	.....	.....	.....	.....	.....	.....	.....	.....
Meigs	2	2	8	9	.....	.....	.....	.....
Mercer	2	1	1	.....	.....	.....	.....	1
Miami .....	.....	.....	10	6	.....	.....	.....	2
Monroe	2	.....	2	1	.....	.....	.....	.....
Montgomery	6	5	11	9	.....	.....	.....	.....
Morgan .....	.....	1	1	3	.....	.....	.....	.....
Morrow .....	.....	.....	5	6	.....	.....	1	1
Muskingum	4	1	7	7	.....	.....	.....	.....
Noble .....	.....	.....	.....	.....	1	.....	.....	.....
Ottawa	4	5	4	1	.....	.....	.....	.....
Paulding	2	2	4	2	.....	.....	.....	3
Perry	1	.....	4	2	.....	.....	.....	.....
Pickaway .....	.....	1	3	2	.....	.....	.....	.....
Pike .....	.....	.....	.....	1	.....	.....	4	.....
Portage	1	.....	2	4	1	.....	1	4
Preble	1	.....	7	5	.....	.....	.....	.....
Putnam	7	5	3	6	.....	.....	.....	.....
Richland .....	.....	.....	4	4	.....	.....	.....	.....
Ross	5	.....	1	4	.....	1	.....	.....
Sandusky	2	2	4	.....	.....	2	1	.....
Scioto	1	1	1	2	.....	.....	.....	.....
Seneca	1	1	8	10	1	.....	.....	.....
Shelby	1	2	4	3	.....	.....	2	2
Stark	3	2	15	11	.....	.....	.....	.....
Summit .....	.....	.....	8	5	.....	.....	.....	.....
Trumbull	1	3	5	8	.....	.....	.....	.....
Tuscarawas	4	.....	2	6	.....	.....	.....	.....
Union .....	.....	.....	6	4	.....	.....	2	.....
Van Wert	2	1	5	6	.....	.....	3	5
Vinton .....	.....	.....	1	.....	.....	.....	1	.....
Warren	1	.....	2	7	.....	.....	1	.....
Washington .....	.....	.....	.....	2	.....	.....	1	1
Wayne	1	.....	4	2	.....	.....	.....	.....
Williams	1	.....	3	1	.....	.....	1	.....
Wood .....	.....	.....	5	11	.....	.....	2	.....
Wyandot .....	.....	.....	8	10	.....	.....	.....	.....
	167	105	439	367	9	8	42	35

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC—Continued.

Class 1.—Zymotic diseases.

Order 1.—Miasmatic, infectious, contagious, and epidemic.						Order 2.—Euthetic.									
19. Rheumatism.		20. Cerebro-spinal meningitis—(spotted fever)		Total deaths, Order 1.		1. Syphilis.		2. Stricture of urethra.		3. Hydrophobia.		4. Glanders and malignant pustules.		Total deaths, Order 2.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
.....	.....	.....	2	56	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	3	.....	95	78	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	2	1	25	31	1	.....	.....	.....	.....	.....	.....	.....	1	.....
1	1	.....	.....	47	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	2	3	30	34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	1	9	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	.....	.....	20	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	2	3	19	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	4	2	37	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	.....	.....	25	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	1	9	9	85	77	1	.....	.....	.....	.....	.....	1	1	2	1
1	.....	.....	.....	11	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	48	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	2	4	2	52	56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	.....	1	11	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	2	28	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	1	4	21	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	27	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	1	2	.....	18	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	.....	2	20	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	1	.....	21	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	6	5	2	37	41	.....	.....	.....	.....	.....	.....	1	.....	1	.....
.....	.....	3	2	29	21	.....	.....	.....	.....	.....	.....	1	.....	1	.....
2	1	2	3	22	18	.....	.....	.....	.....	.....	.....	1	.....	1	.....
3	.....	.....	.....	31	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	1	2	73	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	1	.....	23	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	.....	4	2	45	61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	1	2	30	32	.....	.....	.....	.....	.....	.....	1	.....	1	.....
.....	1	1	3	43	49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	.....	3	1	37	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	1	1	50	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	1	.....	1	38	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	1	1	2	25	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	3	.....	34	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	2	1	16	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	1	.....	.....	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	3	.....	2	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	1	.....	.....	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	1	.....	56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	6	5	54	54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	1	1	20	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
112	.....	182	150	3389	3132	3	.....	4	2	1	.....	6	1	14	4

* 26 male and 12 female deaths should have been placed in some other classification in the report from this county.

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE N

Counties.	Class 1.—Zymotic diseases.							
	Order 3.—Dietic.							
	1. Privation (starvation.)		2. Purpura and scurvy.		Alcoholism.			
					3. Delirium tremens		4. Intemper- ance.	
	M.	F.	M.	F.	M.	F.	M.	F.
Adams								
Allen								
Ashland								
Ashtabula								
Athens								
Auglaize								
Belmont								
Brown								
Butler								
Carroll								
Champaign								
Clarke								
Clermont							1	
Clinton							1	
Columbiana					1		1	
Coshocton								
Crawford								
Cuyahoga							1	1
Darke								
Defiance								
Delaware								
Erie								
Fairfield							1	
Fayette								
Franklin							1	1
Fulton								
Gallia								
Geauga								
Greene							1	
Guernsey								
Hamilton	1				2		3	3
Hancock								
Hardin							4	
Harrison								
Henry							1	
Highland								
Hocking				1			1	
Holmes					1			
Huron								
Jackson								
Jefferson								
Knox								
Lake								
Lawrence								
Licking								

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE I

Counties.	Class 1.—Zymotic diseases.							
	Order 3.—Dietic.							
	1. Privation (starvation.)		2. Purpura and scurvy.		Alcoholism.			
	M.	F.	M.	F.	3. Delirium tremens.		4. Intemper- ance.	
	M.	F.	M.	F.	M.	F.	M.	F.
Logan								
Lorain							1	
Lucas							1	
Madison								
Mahoning								
Marion								
Medina								
Meigs				1				
Mercer								
Miami								
Monroe								
Montgomery	8	14					1	1
Morgan								
Morrow								
Muskingum								
Noble					1			
Ottawa								
Paulding								
Perry								
Pickaway								
Pike								
Portage								
Preble								
Putnam								
Richland								
Ross								
Sandusky								
Scioto								
Seneca								
Shelby								
Stark					1		1	
Summit								
Trumbull		1					2	
Tuscarawas							1	
Union								
Van Wert							1	
Vinton							1	
Warren					1		1	
Washington	2							
Wayne	1							
Williams								
Wood					1			
Wyandot			1					
Totals	12	15	1	2	8		25	6

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC—Continued.

Class 1.—Zymotic diseases.						Class 2.—Constitutional diseases.					
Order 4.—Parasitic.						Order 1.—Diathetic.					
1. Thrush.		2. Worms.		Total deaths, Order 4.		1. Gout.		2. Dropsy and anæmia.		3. Cancer.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
.....	1	5	3	5
.....	7	1	1	2
.....	2	2	3	5
.....	4	7	.....	1
.....	1	.....	1	.....	.....	.....	1	2	1	4
.....	6	4	.....	1
.....	4	5	3	4
.....	2	3	1	1
.....	2	2	.....	3
.....	1	.....	1	.....	.....	.....	2	8	3	6
.....	9	7	.....	1
.....	11	8
.....	1	1
.....	1	3
.....	9	3	7	10
.....	1	3	.....	.....
.....	1
.....	3	2	.....	.....
.....	1	.....	.....	.....	1	.....	.....	2	2	.....	4
.....	3	1	.....	.....
1	1	.....	.....	.....	4	.....	1	.....
.....	1	1	1	1	.....	.....	4	5	4	6
.....	1	.....	1	.....	.....	.....	.....	.....	6	2
.....	2	.....	1	2
.....	2	3	2	1
.....	1	.....	.....	.....	1	.....	.....	7	4	3	1
.....	4	3	1	1
.....	5	3	1	2
.....	1	.....	1	.....	.....	.....	3	6	2	4
1	1	.....	.....	1	1	.....	.....	4	1	.....	.....
.....	1	.....	9	12	1	8
.....	3	4	5	5
.....	6	6	2	5
.....	6	10	4	1
.....	2	1	.....	3
.....	2	2	3
.....	1	1
.....	2	6	.....	3
.....	3	6	2	4
.....	3	5	2	2
.....	1	1	1	1	.....	.....	6	3	.....	4
1	1	1	1	.....	.....	2	3	1	2
.....	4	5	.....	.....
12	14	16	16	28	30	2	1	303	318	175	261

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF

Counties.	Class 2.—Constitutional diseases.									
	Order 1.—Diathetic.						Order 2.—Tubercular.			
	4. Noma (canker).		5. Mortification.		Total deaths, Order 1.		1. Scrofula.		2. Tabes mesenterica (consumption of bowels).	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams					3	2		1	1	
Allen					6	7	1			
Ashland					5	12	1			1
Ashtabula					6	10	■	2		
Athens					2	7			2	2
Auglaize					1	5				
Belmont				1	6	11		1		
Brown					7	2	1			
Butler					1	3	1	1		
Carroll					5	7	1			
Champaign					1	7	2			
Clarke			1		8	6		5		
Clermont					8	7		1		
Clinton					2	5	2	5		
Columbiana					14	8	5	4	4	3
Coshocton					2	2		1		
Crawford				2	2	4				
Cuyahoga					30	17	1	1	16	12
Darke					3	7	2	2	1	
Defiance					3	2	1			1
Delaware					1	4		1	1	
Erie					8	4				
Fairfield					3	11				
Fayette					5	4	1			
Franklin				1	15	15	1	1		1
Fulton					2	1	1			
Gallia					1	4				
Geauga			1		8	6				
Greene				1	5	11	■	2	2	
Guernsey					5	8				
Hamilton					38	53	3	3	6	3
Hancock			1		1	4				
Hardin	■	1			4	5	1			
Harrison					7	2	2	1		
Henry					4	4		■		2
Highland					6	3	4	2		
Hocking				3	1	6	2	3	7	7
Holmes	1		1		3	2	4	3	1	
Huron			1		7	12	1	1	2	
Jackson					4	3	1	2		
Jefferson					7	8	4		1	
Knox	2	2			8	5				
Lake					4	3	1			1
Lawrence					2	3				
Licking					1	1				

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 2.—Constitutional diseases.						Class 3.—Local diseases.					
Order 2.—Tubercular.						Order 1.—Nervous system.					
3. Phthisis (con- sumption of lungs.)		4. Hydrocephalus (droopy of brain.)		Total deaths, Order 2.		1. Cephalitis (in- flammation of the brain.)		2. Apoplexy.		3. Paralysis.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
20	14	.....	.....	21	15	.....	.....	.....	1	4	3
16	22	.....	.....	17	22	.....	.....	2	2	1	1
14	11	.....	.....	15	12	.....	.....	2	1	7	6
12	22	.....	.....	15	24	10	8	2	2	1	9
22	30	.....	.....	24	32	1	1	1	2	4	2
14	8	.....	.....	14	8	3	1	.....	.....	2	.....
15	23	.....	.....	15	24	5	3	1	.....	8	3
.....	1	.....	.....	1	1	.....	.....	2	.....	2	1
32	36	.....	.....	33	37	.....	.....	.....	.....	7	4
5	10	2	.....	8	10	1	1	1	.....	8	3
4	4	.....	.....	6	4	2	1	.....	3	.....	1
18	23	.....	.....	18	28	2	.....	.....	.....	8	2
28	25	.....	.....	28	26	5	1	1	.....	10	6
16	27	.....	.....	18	32	3	8	2	.....	2	2
47	40	1	1	57	48	.....	.....	2	2	7	7
3	10	3	3	6	14	2	.....	.....	1	2	1
15	14	.....	.....	15	14	.....	.....	.....	1	7	2
63	45	3	2	83	60	10	3	8	4	8	2
20	38	.....	.....	23	40	.....	4	.....	3	4	3
13	11	.....	.....	14	12	.....	.....	1	.....	3	1
16	16	1	.....	18	17	2	.....	3	1	5	2
.....	.....	.....	.....	.....	.....	.....	1	2	.....	2	.....
21	31	.....	.....	21	31	.....	.....	.....	.....	10	6
12	14	1	.....	14	14	.....	.....	1	1	3	.....
43	41	.....	.....	44	43	.....	.....	2	.....	8	3
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	3
.....	.....	.....	.....	.....	.....	5	4	.....	.....	5	3
13	9	1	.....	14	9	1	1	1	.....	2	1
28	25	.....	.....	33	27	2	4	1	6	4	3
25	25	.....	.....	25	25	.....	.....	.....	.....	9	2
215	186	2	3	226	195	15	4	15	20	26	15
10	16	.....	.....	10	16	.....	.....	.....	.....	.....	.....
10	6	.....	.....	11	6	4	3	1	3	3	1
5	7	.....	.....	7	8	6	3	.....	1	1	1
10	13	.....	.....	10	16	1	2	2	.....	1	1
15	25	.....	.....	19	27	.....	.....	8	9	3	5
8	12	4	3	21	25	.....	.....	1	3	2	2
3	2	1	2	9	7	.....	.....	.....	1	3	.....
25	24	.....	.....	28	25	7	2	4	.....	8	2
.....	.....	.....	.....	1	2	.....	.....	1	1	1	2
.....	.....	.....	.....	5	.....	2	.....	4	.....	4	2
11	19	.....	1	11	20	.....	.....	3	1	.....	.....
12	17	.....	.....	13	18	.....	.....	1	.....	2	6
11	21	.....	.....	11	21	.....	.....	.....	.....	1	2
29	32	.....	1	29	33	.....	.....	.....	2	4	7

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE N

Counties.	Class 2.—Constitutional diseases.							
	Order 1.—Diathetic.						Order 2.—Tu	
	4. Noma (canker).		5. Mortification.		Total deaths, Order 1.		1. Scrofula.	
	M.	F.	M.	F.	M.	F.	M.	F.
Logan					4	10	1	3
Lorain					1	2	1	2
Lucas	1				11	6	1	
Madison					2	3	1	
Mahoning					5	11	2	1
Marion					1	■		
Medina					9	8		
Meigs					5	6		■
Mercer					2	6		
Miami	1		1		7	8	■	3
Monroe					2	9	1	2
Montgomery				■	20	16	2	
Morgan					1	1	2	1
Morrow					1	■		
Muskingum					16	13	3	
Noble					1	3		1
Ottawa						1		
Paulding					3	2		1
Perry					2	6		2
Pickaway					3	1		2
Pike					5		2	1
Portage					8	11		
Preble	1	■			7	6	1	1
Putnam					3	2	1	
Richland					4	5		
Ross					10	5	2	
Sandusky					5	4		
Scioto					6	5	1	
Seneca	1	■		1	6	12	1	
Shelby					4	1	1	3
Stark	1				12	20	2	1
Summit			1		9	9	1	
Trumbull					8	11	1	1
Tuscarawas					10	11		4
Union					2	4		2
Van Wert					2	5	2	1
Vinton	■				4	1	1	
Warren					3	9		2
Washington			1		11	10	1	
Wayne				2	5	9	1	
Williams					6	7		
Wood					3	5	1	1
Wyandot					4	5		
Totals	10	9	8	12	498	588	86	80

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Constitutional diseases.						Class 3.—Local Diseases.					
Order 2—Tubercular.						Order 1—Nervous system.					
3. Phthisis (consumption of lungs.)		4. Hydrocephalus (dropsy of brain.)		Total deaths, Order 2.		1. Cephalitis (inflammation of the brain.)		2. Apoplexy.		3. Paralysis.	
M.	F.	M.	F.	M.	M.	M.	F.	M.	F.	M.	F.
9	12	2	1	■	16	—	—	1	—	2	3
15	28	—	—	16	30	—	—	1	1	10	6
35	23	—	—	■	25	—	—	1	—	4	3
14	10	—	—	15	10	—	—	—	—	6	1
14	12	1	—	12	13	—	1	2	2	5	3
4	9	—	—	4	9	—	—	—	—	4	3
10	22	—	—	10	22	—	—	2	—	4	5
16	30	1	—	17	31	—	1	3	—	3	1
11	12	■	1	12	13	—	—	—	—	—	—
12	15	2	—	17	19	—	—	2	—	■	4
19	19	—	—	20	21	6	1	1	1	1	3
100	51	2	2	105	■	15	15	10	5	36	11
16	22	—	—	18	23	—	—	—	1	—	3
15	13	—	—	15	13	—	—	—	—	4	3
37	■	—	—	■	20	1	—	2	—	11	9
8	7	—	—	8	8	—	—	2	1	—	—
8	5	—	—	8	6	—	—	—	—	—	—
13	9	—	—	13	■	—	—	—	—	1	1
13	18	1	1	14	21	—	—	3	—	2	4
16	22	—	—	16	24	—	—	—	—	1	—
11	7	1	—	14	8	—	—	—	—	2	1
13	19	—	—	10	19	—	2	2	2	4	4
6	21	—	—	8	22	—	—	1	2	—	1
—	—	—	—	1	—	2	—	—	—	2	—
11	■	—	—	12	17	—	—	1	—	3	4
24	33	—	1	26	■	■	1	—	—	7	2
—	—	—	—	—	—	—	—	1	—	—	1
13	18	1	—	17	19	2	2	—	—	—	2
12	9	—	—	13	10	—	—	—	—	3	6
—	—	—	—	1	3	—	—	—	1	2	—
■	22	1	—	35	24	2	1	5	3	5	8
17	19	3	1	■	20	2	■	2	—	7	5
31	27	—	—	35	■	—	—	2	4	10	5
21	20	—	—	■	■	—	—	1	—	8	5
16	20	—	—	16	22	6	3	1	1	4	1
8	14	—	—	10	15	6	3	—	—	—	3
17	14	—	—	■	14	—	—	—	—	■	1
—	—	—	—	2	2	—	—	■	—	7	7
21	35	—	—	22	36	■	4	2	—	5	6
17	12	—	1	18	19	—	—	1	1	4	5
6	9	—	—	5	9	—	—	1	—	3	2
17	18	2	—	20	19	2	2	1	1	2	2
6	13	—	—	7	13	—	—	—	—	2	3
1,682	1,666	36	■	1,763	1,814	139	94	■	99	367	268

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE

Counties.	Class 3.—Local diseases.											
	Order 1.—Nervous system.											
	4. Insanity.		5. Chorea (St. Vitus dance).		6. Epilepsy.		7. Tetanus.		8. Convulsions.		9. Brain disease.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams					1				4	1	3	1
Allen							1		1	3	12	12
Ashland									3	2	3	
Ashtabula	3										3	
Athens					1							2
Auglaize									4	2	■	■
Belmont					1				1	1	6	2
Brown						1					8	22
Butler											9	4
Carroll									2	1	1	5
Champaign	2	2									4	5
Clarke	1				1		1		3	2	8	8
Clermont		1					1			2	■	5
Clinton						1			1	1	1	1
Columbiana			1	1	1				7	14	■	6
Coshocton										1		2
Crawford									5	1	8	■
Cuyahoga					2	1			18	15	23	7
Darke						2				1	7	4
Defiance			1						4	6	5	10
Delaware						1			4		4	3
Erie						1				1	3	3
Fairfield						1			2		4	5
Fayette			1			1			1		6	■
Franklin				1	1		1		11	4	11	13
Fulton										■	7	6
Gallia					■	1						
Geauga												
Greene	2	4				1			■		1	1
Guernsey									1	1	4	1
Hamilton	2	1			2	1	2	1	71	60	50	48
Hancock									3	1	6	5
Hardin									3	2	4	3
Harrison					1						1	
Henry											2	1
Highland						1			3	1	8	2
Hocking										3	10	9
Holmes						1			3	1	3	3
Huron							1	1	2	2	3	2
Jackson			1			1					8	7
Jefferson									2		4	1
Knox	4	3	1						7	5		
Lake	1								■	1	1	2
Lawrence									4	2	11	7
Licking					2				2	4	3	6

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 3.—Local diseases.

Order 2.—Organs of circulation.								Order 3.—Respiratory organs.							
1. Pericarditis.		2. Aneurism.		3. Heart diseases, etc.		Total deaths, Order 2, Class 3.		1. Epistaxis. (nose bleed.)		2. Laryngitis.		3. Bronchitis.		4. Pleurisy.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
...	4	3	4	3	...	1	...	...	1	...	...	...
...	3	2	3	2	...	...	...	...	1	...	...	...
...	9	5	9	5	...	...	...	...	1	...	...	...
...	10	13	10	13	...	1	...	...	...	...	...	...
...	2	1	2	1	...	...	...	...	...	...	...	...
...	...	1	...	2	3	2	3	1	...	...	...	1	1	...	...
...	1	6	1	6	...	...	1	...	...	1	...	...
...	1	2	1	2	...	...	...	...	3	...	...	...
...	7	10	7	10	...	...	...	...	...	...	...	...
...	4	4	4	4	...	...	...	...	2	...	1	...
...	2	3	2	3	1	...	...	...	...	...	...	...
...	...	1	...	5	6	6	6	...	...	...	...	1	...	1	1
...	6	1	6	1	...	...	...	...	1	...	...	...
...	4	1	4	1	...	...	...	...	...	...	...	...
...	7	6	7	6	...	1	2	...	3	2	2	...
...	3	6	3	6	...	...	...	...	...	...	1	...
...	4	7	4	7	...	...	...	...	...	...	...	...
...	1	...	...	31	14	21	15	...	...	...	...	1	1	...	...
...	4	7	4	7	...	...	...	...	2	1	...	...
...	6	5	6	5	...	...	...	...	1	...	...	...
...	2	2	2	2	...	...	1	...	...	...	...	...
...	5	2	6	2	...	...	...	...	...	...	...	...
...	7	3	7	3	...	...	...	...	1	...	...	...
...	1	1	1	1	...	...	...	...	...	...	...	...
...	11	10	11	10	...	...	...	...	1	...	...	...
...	2	1	2	1	...	...	...	...	...	...	...	...
...	4	1	4	1	...	...	...	...	1	...	...	...
...	9	5	9	5	...	...	...	...	...	...	...	...
...	5	7	6	7	...	...	...	...	...	...	1	...
...	8	4	6	4	...	...	...	...	...	1	...	...
...	49	36	...	36	...	...	...	...	...	7	2	3
...	1	...	1	...	...	...	...	...	...	...	...	...
...	1	2	1	2	...	...	...	...	...	1	...	9
...	2	2	2	2	...	...	...	...	...	1	...	...
...	2	1	2	1	...	...	...	...	...	...	...	...
...	...	1	1	6	6	7	7	...	...	...	...	1	...	...	...
...	1	...	1	...	...	...	...	...	...	...	...	...
...	1	...	...	1	...	2	...	...	...	...	...	...	1	...	1
...	7	6	7	6	...	2	2	...	2	1	...	1
...	1	1	1	1	...	...	...	...	...	2	...	...
...	1	2	1	2	...	...	...	...	...	...	...	...
...	13	4	13	4	...	...	...	...	...	...	1	...
...	1	...	...	...	...	...	...
...	2	...	2	...	...	...	...	...	...	...	...	...
...	6	12	6	12	...	...	...	...	...	...	...	1

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE

Counties.	Class 3.—Local diseases.											
	Order 1.—Nervous system.											
	4. Insanity.		5. Chorea. (St. Vitus dance).		6. Epilepsy.		7. Tetanus.		8. Convulsions.		9. Brain disease.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Logan			1		1	1			1		9	6
Lorain					1		1	1				
Lucas	1		1	1	1				8	3	19	7
Madison									2		5	3
Mahoning									1	1	8	7
Marion							1		1	2	4	3
Medina							1		1	1	3	2
Meigs	1				1				3	1	1	6
Mercer									4	1	3	1
Miami	1				1	2			2		14	8
Monroe	2		1		8	1			5	2	3	1
Montgomery	2	2	1						19	11	16	7
Morgan		2							1		1	4
Morrow										2	1	1
Muskingum	1				2	1			4	1	10	2
Noble					1						1	3
Ottawa									1	1	1	1
Paulding											2	2
Perry						1			1		3	
Pickaway	1				1					2	4	7
Pike									1		1	2
Portage											3	4
Preble	3	3							1		3	5
Putnam											5	5
Richland										1	6	5
Ross			1			1			3	1	2	5
Sandusky									2	1	3	2
Scioto	1								2	1	4	5
Seneca							2		1	3	1	1
Shelby			1	1			1		1	1	7	6
Stark									6	5	8	9
Summit						2			3	4	6	2
Trumbull									2	2	6	1
Tuscarawas					1	1			2	2	1	4
Union						2						1
Van Wert									1	3	1	3
Vinton					1						1	2
Warren						1	1	1	4	3	3	5
Washington	1								6	3	3	2
Wayne									2	2	8	4
Williams									2	1		2
Wood	1								3	4	3	5
Wyandot					1				1	1	3	1
Totals	29	19	7	6	35	28	14	4	275	213	466	398

NOSOLOGY—Continued.

DEATHS AND THE CAUSES OF DEATH, ETC.—Continued.

Class 3.—Local diseases.

Order 2.—Organs of circulation.								Order 3.—Respiratory organs.							
1. Pericarditis.		2. Aneurism.		3. Heart disease, etc.		Total deaths, Order 2, Class 3.		1. Epistaxis. (nose bleed.)		2. Laryngitis.		3. Bronchitis.		4. Pleurisy.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
.....	5	2	5	2	.....	.....	.....	.....	.....	.....	.....	.....
.....	9	18	9	18	.....	.....	.....	.....	.....	.....	.....	.....
1	5	3	17	8	23	11	.....	.....	.....	.....	4	1	.....	.....
.....	2	6	2	6	.....	1	.....	.....	.....	1	.....	.....
.....	5	3	5	3	.....	.....	.....	.....	.....	1	.....	1
.....	3	4	3	4	.....	.....	1	.....	.....	.....	.....	.....
.....	6	4	6	4	.....	.....	.....	.....	.....	.....	.....	.....
.....	4	6	■	6	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	5	2	5	2	.....	.....	.....	.....	1	1	.....	1
.....	3	2	■	2	.....	.....	.....	.....	.....	.....	.....	1
1	1	2	25	9	27	11	2	.....	2	.....	■	2	.....	.....
1	1	2	2	2	.....	.....	.....	.....	.....	1	.....	.....
.....	3	4	3	4	.....	.....	.....	.....	.....	.....	.....	.....
.....	8	7	8	7	.....	.....	.....	.....	.....	.....	.....	.....
.....	2	1	2	1	.....	.....	.....	.....	.....	.....	.....	.....
.....	2	2	2	2	.....	.....	1	.....	1	.....	.....	.....
.....	3	1	3	1	.....	.....	.....	.....	.....	.....	.....	1
.....	3	3	3	3	.....	.....	.....	.....	1	.....	.....	.....
.....	1	.....	.....	3	1	3	2	.....	.....	.....	.....	.....	1	.....	.....
.....	5	2	5	2	.....	.....	.....	.....	.....	.....	.....	.....
.....	12	11	12	11	.....	.....	.....	.....	.....	1	.....	.....
.....	1	.....	7	9	8	9	.....	.....	1	.....	.....	1	.....	.....
.....	1	2	1	2	.....	.....	.....	.....	.....	.....	.....	.....
.....	6	2	6	2	.....	.....	1	.....	.....	.....	.....	.....
.....	5	10	5	10	.....	.....	.....	.....	.....	1	1	.....
.....	5	3	■	3	.....	.....	.....	.....	.....	1	1	.....
.....	3	3	3	3	.....	.....	.....	.....	.....	.....	.....	1
.....	9	4	9	5	.....	.....	.....	.....	.....	1	3	.....
.....	1	.....	.....	4	3	4	3	.....	.....	.....	.....	.....	1	.....	.....
.....	7	6	7	7	.....	.....	2	.....	.....	.....	.....	1
1	13	4	14	4	.....	.....	.....	.....	7	5	.....	.....
.....	9	6	9	6	.....	.....	.....	.....	.....	1	.....	.....
.....	4	8	■	8	.....	.....	.....	.....	1	.....	.....	.....
.....	2	3	2	3	.....	.....	.....	.....	.....	.....	.....	.....
.....	3	5	3	5	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	1	1	1	.....	.....	.....	.....	1	.....	.....	2
.....	1	1	7	2	8	3	.....	.....	.....	.....	.....	.....	.....	.....
.....	5	4	■	4	.....	.....	.....	.....	2	.....	.....	.....
.....	11	7	11	7	.....	.....	.....	.....	.....	.....	.....	.....
.....	8	2	6	2	.....	1	.....	.....	1	.....	.....	.....
.....	5	8	5	8	.....	.....	.....	.....	1	.....	1	.....
.....	■	4	3	4	.....	.....	.....	.....	.....	1	1	.....
5	4	11	7	■	410	507	421	4	3	19	7	■	40	16	19

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE

Counties.	Class 3.—Local diseases.					
	Order 3.—Respiratory organs.					
	5. Pneumonia.		6. Asthma.		7. Lung diseases, etc.	
	M.	F.	M.	F.	M.	F.
Adams	4	2	.....	.....	6	4
Allen .....	.....	2	.....	.....	4	9
Ashland	5	1	.....	.....	3	5
Ashtabula	7	6	.....	.....	2	.....
Athens .....	.....	.....	2	.....	.....	.....
Auglaize	5	.....	.....	.....	10	7
Belmont	1	4	4	.....	15	21
Brown	2	4	.....	1	33	33
Butler	6	6	.....	.....	.....	.....
Carroll .....	.....	.....	1	1	3	6
Champaign	3	1	.....	.....	20	22
Clarke	2	1	1	1	4	5
Clermont	5	7	.....	3	1	3
Clinton .....	.....	1	.....	.....	7	3
Columbiana	5	4	1	1	6	8
Coshocton .....	.....	.....	.....	.....	5	4
Crawford .....	.....	.....	.....	.....	15	13
Cuyahoga	6	5	2	1	14	19
Darke	18	14	.....	2	.....	.....
Defiance	3	4	1	.....	5	3
Delaware	3	2	1	.....	.....	.....
Erie .....	.....	.....	.....	.....	18	14
Fairfield	4	2	.....	.....	11	8
Fayette	4	.....	1	.....	.....	2
Franklin	9	6	2	.....	12	11
Fulton	1	1	.....	.....	14	14
Gallia	1	.....	1	.....	13	17
Geauga	2	5	.....	.....	.....	.....
Greene	6	7	1	2	1	1
Guernsey .....	.....	1	.....	.....	.....	.....
Hamilton	45	33	13	7	49	38
Hancock .....	.....	.....	.....	.....	5	3
Hardin	1	2	1	.....	8	4
Harrison	3	1	.....	.....	5	2
Henry	5	4	.....	.....	1	.....
Highland	1	4	.....	1	17	12
Hocking .....	.....	.....	.....	.....	.....	.....
Holmes .....	.....	.....	.....	.....	2	3
Huron	4	2	2	.....	6	2
Jackson	1	1	.....	.....	16	28
Jefferson	3	1	.....	.....	13	17
Knox	1	.....	.....	.....	9	8
Lake .....	.....	.....	.....	.....	4	.....
Lawrence	1	2	.....	.....	8	3
Licking	2	3	1	2	3	2

NOSOLOGY—Continued.

DEATHS AND THE CAUSES OF DEATH, ETC.—Continued.

Class 3.—Local diseases.

Order 4.—Digestive organs.

1. Gastritis (inflammation of the stomach).		2. Inflammation of the bowels.		3. Ascites (inflammation of the abdominal cavity).		4. Ulceration of intestines.		5. Hernia.		6. Internal strangulation of bowels.		7. Fistula.	
M.		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	1	1	2										
	1	1	5										
	1	6	1						3				
	1		1										
2	3	2	7				1	1					
		2	1									1	
	1	1	3										
		3	1					1	1				
1	3	1	2					1				1	
		1											
2		1	4					1					
			1										
		1	3										
2	2	1	3			1				2	2		1
1		3	2				1	1					
		1	3										
		1	1		1								
			4										
		2											
	1	5	1										
1	2	3	1										
1		3	2		1								
	2	1	1										
4	5	26	10					2		1	2		
		2	1										
4		1	2										
1		1	1										
	2	1	1										
		1						1		1			
1		1	1							1			
1		1	2										
		1	1						1				2
		2											
1	1	4	5	2	4				1				

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE

Counties.	Class 3.—Local diseases.					
	Order 3.—Respiratory organs.					
	5. Pneumonia.		6. Asthma.		7. Lung Diseases, etc.	
	M.	F.	M.	F.	M.	F.
Logan	8	7	1	.....	1	.....
Lorain .....	.....	.....	5	2	5	9
Lucas	3	1	2	.....	4	4
Madison	1	1	2	.....	1	3
Mahoning	2	.....	.....	.....	9	6
Marion	3	.....	.....	.....	1	8
Medina .....	.....	1	.....	1	5	4
Meigs	6	4	1	.....	4	4
Mercer	1	.....	.....	.....	13	10
Miami	9	4	1	1	6	4
Monroe	4	1	.....	.....	2	2
Montgomery	26	20	3	.....	9	7
Morgan	1	.....	.....	1	1	3
Morrow	1	.....	.....	.....	3	11
Muskingum	5	2	3	.....	17	9
Noble .....	.....	.....	.....	.....	.....	.....
Ottawa	2	3	.....	.....	3	1
Paulding .....	.....	.....	.....	.....	5	16
Perry	1	.....	2	1	3	3
Pickaway .....	.....	2	.....	1	3	5
Pike	1	1	1	.....	12	6
Portage	1	2	1	.....	5	3
Preble	3	3	2	1	3	5
Putnam .....	.....	.....	.....	.....	24	29
Richland	1	1	2	1	6	11
Ross	6	6	.....	.....	8	11
Sandusky	7	4	.....	.....	21	25
Scioto .....	.....	.....	.....	.....	10	7
Seneca	1	.....	1	.....	5	8
Shelby	2	1	.....	1	20	29
Stark	2	2	2	2	12	7
Summit	9	8	.....	.....	1	1
Trumbull	6	4	1	.....	6	5
Tuscarawas	20	5	1	1	.....	.....
Union	13	11	.....	1	.....	.....
Van Wert	11	7	.....	.....	2	1
Vinton .....	.....	2	.....	.....	1	1
Warren	2	1	1	1	32	31
Washington	17	7	3	2	3	2
Wayne	6	1	.....	.....	7	8
Williams	2	.....	.....	1	7	12
Wood	1	2	.....	.....	4	7
Wyandot .....	.....	.....	.....	.....	5	6
Totals	353	253	66	40	655	678

NOSOLOGY—Continued.

DEATHS AND THE CAUSES OF DEATH, ETC.—Continued.

Class 3.—Local diseases.

Order 4.—Digestive organs.

1. Gastritis (inflammation of the stomach).		2. Inflammation of the bowels.		3. Ascites (inflammation of the abdominal cavity).		4. Ulceration of intestines.		5. Hernia.		6. Internal strangulation of the bowels.		7. Fistula.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1			1	1	2								
1		1	2		1								
	1	2	3										
	1	2	2								1		
1		1	2					2					
								1					
1		5											
5	1	3	4		1	2				1			1
1	1	2	1										
1		1	1										
		1	1										
		1	1										
		2	1										
										1			
	1		4								1		
1		2	1		1								
1		1	1					1			1		
		1	1										
	1	1	1										
		6	2							1		1	
		1	1										
		1	1							1			
		5	3										
	1	4	1		1				1				
		1	9						2		1		
1		3	6			1							
1	2	1										1	
1		1						1					
3		3	2		1								
1			1										
	1		1										
		2											
1		5	1					1					
		4	3				1					1	
		1	1										
4	1	1	1			1				1	1		
	1		1										
47	40	170	162	6	11	5	3	14	10	11	19	5	4

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE

Counties.	Class 3.—Local diseases.											
	Order 4.—Digestive organs.											
	8. Stomach diseases, etc.		9. Pancreatic diseases, etc.		10. Hepatitis.		11. Jaundice.		12. Liver diseases, etc.		13. Spleen diseases, etc.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams	2								1			
Allen									3			
Ashland									2	1		
Ashtabula	2	1							3			
Athens											1	
Auglaize		1					2		1			
Belmont	3	1					2	1	2	1		
Brown		1							1		1	1
Butler									1	1		
Carroll	1											
Champaign	1								1			
Clarke	2						1	1	3	1		
Clermont							1		3			
Clinton									3			
Columbiana	2	3					1				3	1
Coshocton	1			1								
Crawford									1	1		
Cuyahoga	1	2					1	1	2	3		1
Darke	2	1								1		
Defiance									2			
Delaware	2									1		
Erie	1	1								1		
Fairfield	1	3							1	1		
Fayette										1		
Franklin		1					1	3			1	
Fulton												
Gallia		2							4	4		
Geauga	1								1			
Greene	3	3					1		1			
Guernsey												
Hamilton	6	4			1		2	4	11	10		
Hancock	3	3							1	3		
Hardin							1		1			
Harrison	1									1		1
Henry									2	3		
Highland									3	1		
Hocking									2			
Holmes		1								2		
Huron	1	2								2		
Jackson							1	1	1	2		
Jefferson	3											
Knox										1		
Lake	3						1	1	1			
Lawrence	1											
Licking	3	6					1		2	3		
Logan	2							1				

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE N

Counties.	Class 3.—Local diseases.											
	Order 4.—Digestive organs.											
	8. Stomach diseases, etc.		9. Pancreatic diseases, etc.		10. Hepatitis.		11. Jaundice.		12. Liver diseases, etc.		13. Spleen diseases, etc.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Lorain	7	6										
Lucas		1							2	1		
Madison									1			
Mahoning		2								1		
Marion												
Medina									3	1		
Meigs									2	1		
Mercer												
Miami	3	2					1			1		
Monroe	2	1							1			
Montgomery	1				6	1	1	1	1			
Morgan	3											
Morrow												
Maskingum		4							1	2		
Noble									1			
Ottawa									1			
Paulding	1		1	1	1							
Perry												
Pickaway		1					1		1			
Pike	7								2	1		
Portage							1	1		2		
Preble							1	1				
Pu'nam												
Richland		1					2		1	3	1	
Ross							1	2		2		
Sandusky	3	2							3			
Seneca	2	3							2			
Seneca	2	2					1					
Shelby	5	5					1					
Stark										2		
Summit	1								1	2		
Trumbull	1	1					2	1	1	2		
Tuscarawas									1	2		
Union									2			
Van Wert		1						1		1		
Vinton							1					
Warren	1	3						2	3	1		
Washington	1	1							5	3		
Wayne								1	7	2		
Williams									1			
Wood	1	3							1	1		
Wyandot		1					1		1			
Totals	89	76	1	2	8	1	27	22	105	78	7	4

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC—Continued.

Class 3.—Local diseases.

Order 5.—Urinary organs.

1. Nephritis (inflammation of the kidneys)		2. Ischuria (difficult urination)		3. Bright's disease		4. Diabetes		5. Calculus (stone, gravel, etc.)		6. Inflammation of the bladder		7. Kidney disease		Total deaths, order 5, class 3.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
.....	2	.....	.....	.....	.....	.....	2	1	4	3
.....	2	.....	2	1
.....	6	.....	6	.....
.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	.....
.....	1	1	.....	1	.....	.....	.....	.....	.....	1	.....
.....	1	.....	2	.....
.....	1	.....	.....	.....	1	.....	2	.....
1	1	2	2	1	1	.....	.....	.....	5	.....	3	2	12	5
.....	1	1	.....	1	.....	.....	.....	5	.....	2	1
.....	1	1	.....	.....	.....	2	.....	6	1
.....	1	.....	.....	.....	1	.....	2	1
.....	1	.....	.....	.....	.....	.....	1	.....
1	1	.....	.....	.....	.....	1	.....	2	1
.....	1	.....	.....	1	.....	2	.....	3	1
2	1	.....	.....	.....	.....	2	.....	.....	.....	1	.....	.....	.....	5	1
.....	1	.....	2	1	.....	.....	.....	.....	1	.....	4	1
.....	1	1	.....	.....	.....	1	1	2
.....	1	1	.....	.....	.....	.....	1	1
.....	1	.....	.....	2	.....	.....	.....	3	.....
.....	1	.....	.....	.....	2
.....	1	1	.....	.....	.....	.....	.....	1	.....	3	2
.....	1	.....	.....	1	.....	.....	1	1
.....	1	.....	.....	1	1
.....	4	4
.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	1
.....	2	.....	1	.....	.....	.....	.....	.....	.....	2	1	5	.....
.....	1	.....	5	.....	5	.....
.....	2	.....
.....	1	.....
.....	1	.....	2	.....
.....	4	.....
.....	1	.....	1	.....	3	7
.....	3	4	.....	.....	.....	.....	.....	.....	5	1
.....	1	1	.....	.....	.....	.....	.....	.....	1	1
.....	1	1
.....	1	.....	1	.....	1	.....	.....	.....	2	.....	3	3
.....	1	.....	.....	.....	1	.....	1	1
11	1	.....	1	35	14	51	94	48	5	25	5	104	36	274	86

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF

Counties.	Class 3.—Local diseases.													
	Order 4.—Digestive organs.													
	8. Stomach diseases, etc.		9. Pancreatic diseases, etc.		10. Hepatitis.		11. Jaundice.		12. Liver diseases, etc.		13. Spleen diseases, etc.		Total deaths, Order 4, Class 3.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Lorain	7	6											4	8
Lucas		1							2	1			4	5
Madison									1				1	
Mahoning		2								1			2	7
Marion													2	4
Medina									3	1			6	3
Meigs									2	1			4	1
Mercer														
Miami	3	2					1			1			10	3
Monroe	2	1							1	1			5	1
Montgomery	1				6	1	1	1	1				25	9
Morgan	3												5	
Morrow													2	2
Muskingum		4							1	2			3	6
Noble									1				2	
Ottawa													1	1
Paulding					1								1	1
Perry	1		1	1									3	1
Pickaway		1					1		1				2	6
Pike	7								2	1			9	4
Portage							1	1		2			5	7
Preble							1	1					4	2
Purnam													2	1
Richland		1					2		1	3	1		11	7
Ross							1	2		2			2	6
Sandusky	3	2							3				7	4
Scioto	2	3							2				6	6
Seneca	2	2						1					7	6
Shelby	5	5					1						10	8
Stark										2			4	14
Summit	1								1	2			3	7
Trambull	1	1					2	1	1	2			6	6
Tuscarawas									1	2			4	4
Union									2				9	2
Van Wert		1					1			1			1	4
Vinton							1						1	2
Warren	1	3						2	3	1			6	7
Washington	1	1							5	3			14	5
Wayne							1		7	2			11	7
Williams									1				2	1
Wood	1	3							1	1			9	7
Wyandot		1					1		1				2	3
Totals	69	76	1	2	8	1	27	22	105	78	7	1	495	422

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 3.—Local diseases.

Order 5.—Urinary organs.

1. Nephritis (inflammation of the kidneys).		2. Ischuria (difficult urination).		3. Bright's disease.		4. Diabetes.		5. Calculus (stone, gravel, etc).		6. Inflammation of the bladder.		7. Kidney disease.		Total deaths, order 5, class 3.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
.....	2	.....	.....	.....	.....	.....	2	.....	4	.....
.....	3	1	3	1
.....	2	.....	2	.....
.....	1	.....	.....	.....	6	.....	6	.....
.....	1	.....	1	.....	1	.....	1	.....	1	.....	1	1
.....	1	1	.....	1	.....	.....	.....	2	.....	6	.....
.....	2	.....
.....	1	.....	.....	.....	1	.....	.....	1
.....	1	.....	.....	.....	.....	.....	2	.....
1	1	2	2	1	1	.....	1	.....	5	.....	3	2	12	5
.....	1	1	1	.....	1	.....	.....	.....	.....	.....	2	1
.....	1	.....	1	.....	.....	.....	5	.....	6	1
.....	3	1	1	.....	.....	.....	2	1	6	2
.....	1	.....	.....	.....	1	1	2	1
.....	1	.....	.....	.....	.....	.....	1	.....
1	1	.....	.....	.....	.....	.....	1	.....	.....	.....
.....	1	.....	.....	.....	1	.....	2	.....	2	1
2	1	.....	.....	.....	.....	2	.....	.....	.....	1	.....	.....	.....	3	.....
.....	1	.....	2	1	.....	.....	.....	.....	1	.....	5	1
.....	1	1	.....	.....	.....	1	4	1
.....	1	1	.....	.....	.....	.....	1	2
.....	1	1	2	.....	.....	.....	1	1
.....	1	.....	.....	.....	1	.....	.....	.....	3	.....
.....	1	.....	.....	.....	2
.....	2	.....	.....	2
.....	1	1	.....	.....	1	.....	.....	.....	1	.....	3	1
.....	1	.....	.....	1	.....	.....	1	1
.....	4	.....	.....	.....	.....	.....	.....	.....	.....	4	4	4
.....	2	1	.....	.....	.....	.....	.....	.....	2	1	5	1
.....	5	.....	.....	.....
.....	1	.....	1	.....	1	.....	.....	.....	2	.....
.....	1	.....	.....	.....	.....	.....	1	.....	1	.....
.....	1	.....	2	.....
.....	1	.....	.....	.....	.....	.....	4	.....	4	.....
.....	1	4	.....	1	.....	.....	1	3	3	7
.....	3	1	2	.....	.....	.....	.....	.....	5	1
.....	1	1	.....	.....	.....	.....	.....	.....	1	1
.....	1
.....	1	.....	1	.....	1	.....	.....	.....	2	1	3	3
.....	1	.....	.....	.....	1	.....	1	1
11	1	.....	1	35	14	61	24	48	5	25	5	104	36	274	86

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE NUM

Counties.	Class 3.—Local diseases.									
	Order 6.—Generative organs.					Order 7.—Organs of locomotion.				
	1. Ovarian drop- sy.		2. Diseases of the womb, etc.		Total deaths, Or- der 6, Class 3.		1. Inflammation of the joints.		2. Joint diseases, etc.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams									1	
Allen										
Ashland							1			
Ashtabula										
Athens										
Auglaize										
Belmont							2	2		
Brown										
Butler										
Carroll				1		1			1	
Champaign	1				1					1
Clarke				1	1					2
Clermont										
Clinton										
Columbiana				3		3				
Coshocton				1		1				
Crawford	6			1		7				
Cuyahoga	3					3				
Darke				3		3				
Defiance										
Delaware										
Erie										
Fairfield				1		1				
Fayette										
Franklin									1	
Fulton										
Gallia										
Geauga										
Greene										
Guernsey										
Hamilton				2		2				
Hancock	3					3				
Hardin	1			1		2				
Harrison										
Henry										
Highland										
Hocking										
Holmes				1		1				
Huron	■					1				
Jackson				1		■				
Jefferson										
Knox										
Lake									1	
Lawrence	1									
Licking		1		1		2			1	

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF

Class 3.—Local diseases.

Counties.	Order 6.—Generative organs.					Order 7.—Organs of locomotion.					
	1. Ovarian dropsy.		2. Diseases of the womb, etc.		Total deaths, Order 6, Class 3.	1. Inflammation of the joints.		2. Joint diseases, etc.		Total deaths, Order 7, Class 3.	
	M.	F.	M.	F.		M.	F.	M.	F.	M.	F.
Logan											
Lorain		1		1							
Lucas											
Madison											
Mahoning											
Marion											
Medina									1		1
Meigs				1				1		1	
Mercer											
Miami											
Monroe											
Montgomery				3				2		2	
Morgan		4									
Morrow		2									
Muskingum											
Noble											
Ottawa		3									
Paulding											
Perry							2				2
Pickaway											
Pike						1				1	
Portage											
Preble		3				3	1			1	
Putnam				1		1					
Richland				1		1					
Ross				2		2					
Sandusky				1		1		1	1	1	1
Scioto		1				1	1		1	1	2
Seneca						1					
Shelby						1			1	1	1
Stark								1	2	1	2
Summit				2		2					
Trumbull				1		1					
Tuscarawas											
Union											
Van Wert		1		2		3					
Vinton								1		1	
Warren				1		1		1	3	1	3
Washington				1		1					
Wayne				1		1					
Williams											
Wood				1		1					
Wyandot											
.....		31		36		67	6	6	12	13	19

NOSOLOGY—Continued.

DEATHS AND THE CAUSES OF DEATH, ETC.—Continued.

Class 3.—Local diseases.								Class 4.—Developmental diseases.							
Order 8.—Integumentary system.								Order 1.—Developmental diseases of children.							
1. Phlegmon (carbuncle, etc.)		2. Ulcer.		3. Skin diseases, etc.		Total deaths, Order 8, Class 3.		1. Still-born.		2. Infantile, premature, etc.		3. Cyanosis.			
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
		2				2		2		3	6	1	1		
								10	9	5	7	2	1		
			2			2		1	1						
		2	2			2			1						
1	1	2				3	1		1	1	3				
								4	1						
1						1		1	1						
		2		1		3		6	3	12	12				
								26	14	7	8				
								2	1	8	4				
								3							
								2							
				2		2					1				
		1				1		3	1						
								1	1						
								1					1		
								1							
		1				1		3	3	1					
								1	3						
		1			1	1	1	2	3	7					
								7	4						
				1		1		3	6						
				1		1		2							
		1		1		1		1	2						
		1	1	1		2	1	3							
		1	1	1		1	1	6	2	1			1		
1			1			1	1	1							
								6	3						
				1		1		3							
		1	4			1	4	1	8	10	8				
		1				1		2	3						
								2							
			1	1			1	3	3		1				
											1				
6	1	24	23	12	5	42	29	264	159	113	87	5	5		

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE N

Counties.	Class 4.—Developmental diseases					
	Order 1.—Developmental diseases of					
	4. Spinabifidia.		5. Other malformations.		6. Teething.	
	M.	F.	M.	F.	M.	F.
Adams					1	
Allen						
Ashland						
Ashtabula						1
Athens						
Anglaize						
Belmont						
Brown					4	
Butler						
Carroll						
Champaign						
Clark				2		
Clermont		1				
Clinton						
Columbiana					2	3
Coshocton		1				
Crawford						
Cuyahoga					6	2
Darke						
Defiance						1
Delaware						
Erie						
Fairfield						
Fayette						
Franklin				1	1	
Fulton						
Gallia						
Geauga						
Greene				1		
Guernsey						
Hamilton			2		12	8
Hancock					1	2
Hardin						
Harrison						
Henry						
Highland						
Hocking					3	3
Holmes					1	
Huron					1	1
Jackson			4	7		
Jefferson						
Knox						
Lake						
Lawrence						
Licking	1	1				1

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 4.—Developmental diseases.

Order 2.—Developmental diseases of adults.						Order 3.—Developmental diseases of old people.		Order 4.—Developmental diseases of nutrition.	
1. Parapneumonia (menstrual disease.)		2. Child-birth.		Total deaths, Order 2, Class 4.		Old age, total).		Atrophy and debility (total).	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
			1		1		3		1
			2		2		6		
			1		1		3		
			6		6		21		
			1		1		8		
							3		
			4		4		8	1	
			3		3		6	2	2
			1		1		7		
			2		2		5		1
								8	8
	1				1	8	6	1	1
						8	16	1	1
			4		4	3	6		
						22	14	5	6
						3	4	1	
			9		1	8	4		
			3		9	35	35		
			1		1	11	6		
			2		2	9	3		
			4		4	12	8		
			1		1	8	4		
			2		2	9	2		
			6		6	5	8		
1			1		2	8	2		
						11	5		
						7	7		
			2		2	9	5		
			2		2	2	7		
1			14		15	23	5	9	12
			1		1	9		2	1
			2		3	6	4	1	
			1		1	2	4		
			2		2	2	4		
2					2	8	6	1	3
			2		2	4			
			1		1		1		
			4		4	11	9	2	3
			4				4		
						9	1	3	
						2	2	1	4
			1		1	4	6		
			1		1	3	2		
			2		2	7	7		

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE N

Counties.	Class 4.—Developmental diseases						
	Order 1.—Developmental diseases of cl						
	4. Spinabifidia.		5. Other malfor- mations.		6. Teething.		
	M.	F.	M.	F.	M.	F.	
Logan	1	1	1	1	5	2	
Lorain					1	2	
Lucas							
Madison							
Mahoning					1		
Marion							
Medina			1				
Meigs							
Mercer							
Miami							
Monroe	1	1					
Montgomery			3				
Morgan				1			
Morrow			2	1			
Muskingum							
Noble							
Ottawa							
Paulding							
Perry							
Pickaway						1	
Pike							
Portage							
Preble	1						
Putnam							
Richland							
Ross	1						
Sandnsky					5	5	
Scioto	1		5				
Seneca				1	1	1	
Shelby							
Stark		2		1	1	1	
Summit				1			
Trumbull					1		
Tuscarawas							
Union							
Vau Wert							
Vinton		1					
Warren					2		
Washington				1	2		1
Wayne							
Williams	1						
Wood						1	
Wyandot							
Totals	7	8	18	18	51	34	45

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 4.—Developmental diseases.									
Order 2.—Developmental diseases of adults.						Order 3.—Developmental diseases of old people.		Order 4.—Developmental diseases of nutrition.	
1. Paramenia (menstrual disease).		2. Child-birth.		Total deaths, Order 2, Class 4		Old age (total).		Atrophy and debility (total).	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
....	1	.....	1	.....	2	7	8	.....	1
.....	1	.....	1	19	19	.....	.....
.....	3	.....	3	17	7	.....	.....
.....	3	3	1	2
.....	2	.....	2	6	4	.....	.....
.....	1	.....	1	6	4	.....	.....
.....	1	.....	1	12	9	.....	.....
.....	4	.....	4	8	10	.....	.....
.....	1	.....	1	8	5	.....	.....
.....	2	1	3	2
.....	6	.....	6	4	10	.....	2
.....	5	.....	5	25	21	2	6
.....	3	12	.....	.....
.....	1	.....	1	9	6	2	1
.....	3	.....	3	15	9	6	10
.....	7	3	.....	.....
.....	6	.....	6	4	3	.....	.....
.....	1	1	.....	.....
.....	3	.....	3	8	6	.....	.....
.....	4	.....	4	6	5	1	.....
.....	5	5	.....	.....
.....	5	11
.....	2	.....	2	8	8	.....	.....
.....	2	.....	2	9	3	.....	.....
.....	3	.....	3	7	10	.....	.....
.....	1	.....	1	8	5	.....	2
.....	3	.....	3	8	3	.....	.....
.....	3	.....	3	2	4	.....	.....
.....	3	.....	3	11	7	.....	.....
.....	1	.....	1	5	8	.....	.....
.....	3	.....	3	16	15	.....	.....
.....	1	.....	1	10	5	1	.....
.....	2	.....	2	10	13	.....	.....
.....	9	.....	9	10	11	.....	.....
.....	5	4	.....	.....
.....	1	.....	1	3	1	.....	.....
.....	1	.....	3	.....	4	4	3	.....	.....
.....	1	.....	3	.....	4	10	10	4	3
.....	2	.....	2	22	16	1	2
.....	1	.....	1	11	7	1	1
.....	1	.....	3	.....	4	1	3	.....	1
.....	5	.....	5	4	4	.....	.....
.....	3	.....	3	5	4	.....	.....
.....	10	.....	190	.....	200	691	600	73	90

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, SHOWING THE

Counties.	Class 5.—Violent deaths.											
	Order 1.—Accident or negligence.											
	1. Fractures and contusions.		2. Burns and scalds.		3. Poison.		4. Drowning (and lost at sea.)		5. Suffocation and strangulation.		6. Otherwise.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams	1	1	2								2	
Allen	1			1		1					4	
Ashland											5	
Ashtabula			2								9	
Athens					1		1					
Auglaize	2	1		2								
Belmont	1		2	2	2	2	3				10	
Brown	1		1	2	1		1				8	
Butler			2	1			2	1			6	
Carroll			1						1		2	
Champaign							1					
Clarke	2										2	
Clermont		1		2			1					
Clinton			1	3		1	1					
Columbiana				2			1				1	
Coshocton	3			1								
Crawford			1	2			1				1	
Cuyahoga			3	1			5	3	1		15	1
Darke	1				1						5	
Defiance			2		1		1					
Delaware					1						7	1
Erie			1	1			2				2	1
Fairfield											3	
Fayette			1								2	
Franklin			1	1			1				9	1
Fulton			1									1
Gallia	2			2								
Geauga											3	1
Greene	1		1	1								
Guernsey												
Hamilton			4	4	1	4	8		1		1	
Hancock	4	1							3	2		
Hardin			1	1	1						2	
Harrison	1			1								
Henry							1	1			2	
Highland												
Hocking				1					1			
Holmes										1	1	
Huron	1	1			1						1	1
Jackson	2		1	1			1		2		16	3
Jefferson							1				5	
Knox					1	2						
Lake	1		1	1			1				1	
Lawrence			7	2		1						
Licking	2	1	1				1	1			8	1

NOSOLOGY—Continued.

DEATHS AND THE CAUSES OF DEATHS, ETC.—Continued.

Class 5.—Violent deaths.

Order 2.		Order 3.		Order 4.		Order 5.		Order 6.		Order 7.			
Battle or riot.		Homicide.		Suicide.		Execution.		Other violent deaths.		Sudden deaths and causes unknown.		Total deaths, Orders 2, 3, 4, 5, 6, 7, Class 5.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
.....	1	.....	.....	.....	1	.....	.....	.....	2	.....
.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	2	.....
.....	7	7	7	7
1	1	.....	.....	.....	.....	.....	6	12	8	12
.....	2	1	5	4	7	5
.....	1	.....	.....	.....	.....	.....	38	28	39	28
.....	4	1	29	31	33	32
.....	1	.....	1
.....	91	51	91	51
.....	1	.....	.....	.....	.....	1	7	1	8
.....	1	.....	.....	.....	15	9	16	9
.....	1	.....	.....	.....	.....	.....	5	6	6	6
.....	3	.....	.....	.....	.....	.....	22	22	25	24
.....	2	.....	13	11	15	11
.....	1	3	.....	.....	.....	3	.....	3	.....	9	1
1	1	.....	.....	.....	.....	.....	28	19	30	19
.....	14	13	14	18
1	1	.....	3	.....	.....	.....	10	1	41	38	56	39
.....	1	.....	.....	.....	.....	.....	.....	.....	21	25	22	25
.....	4	.....	.....	.....	4	.....
.....	2	13	11	13	13
.....	1	.....	.....	.....	.....	2	12	14	13	16
.....	2	.....	.....	.....	7	.....	6	3	15	3
.....	19	11	19	11
.....	2	.....	1	.....	.....	.....	.....	.....	42	39	45	39
.....	1	.....	14	25	15	25
.....	4	1	4	1
.....	1	.....	.....	.....	.....	.....	14	5	15	5
.....	1	.....	.....	.....	.....	1	23	22	24	23
.....	1	.....	.....	2	.....	5	6	7	7
.....	1	1	11	4	.....	.....	15	6	368	357	365	368
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	11	13	11	13
.....	1	.....	6	3	7	3
.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	1	.....	.....	2	1	14	24	16	26
1	3	.....	.....	.....	4	.....
.....	1	5	1	5
.....	2	.....	.....	.....	1	.....	7	9	10	9
.....	1	.....	.....	.....	.....	.....	.....	.....	1
.....	1	.....	21	26	22	26
.....	12	6	12	6
.....	3	1	.....	.....	1	.....	2	4	6	5
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
.....	1	.....	3	.....	.....	.....	1	.....	12	11	17	11

VITAL STATISTICS.—

NOSOLOGICAL ARRANGEMENT EXHIBITING THE

Counties	Class 5.—Violent deaths.											
	Order 1.—Accident or negligence.											
	1. Fractures and contusions.		2. Burns and scalds.		3. Poison.		4. Drowning (and lost at sea).		5. Suffocation and strangulation.		6. Otherwise.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Logan		1					1	1			1	
Lorain							1				4	
Lucas	2		1				1		1			
Madison			2								1	
Mahoning			1		1		1				11	
Marion			1								3	
Medina	6		1									
Meigs			1		1		2		1		4	
Mercer			2				1					
Miami			3		1						2	
Monroe			3				4					
Montgomery	12	1	3	3	1		1	2			4	
Morgan	3										2	
Morrow			1		2						1	
Muskingum	1	1	2	1			4				6	
Noble	3	1	1									
Ottawa	1		1				2				2	
Paulding	1										2	
Perry	2		2	1	1	2					2	
Pickaway			1				1		1		2	
Pike			1								14	1
Portage		3									1	2
Preble			1									
Putnam		1									2	
Richland	1						1				2	
Ross			1	1			4	1			4	1
Sandusky	1	2					1	1			1	
Scioto			1	1			1	2			3	
Seneca			1				1		2		5	1
Shelby			2						1		9	4
Stark			3				1		1		13	1
Summit			1				3	1			6	
Trumbull	2		2	2			3		5		7	
Tuscarawas			1	1			2				7	3
Union			2								2	
Van Wert							2		2		1	1
Vinton	1		1									
Warren			1				1	1			6	2
Washington							5	3	1	1	4	
Wayne		1	1	1			1		1		2	
Williams			1	1								
Wood		1	1		1	2					7	
Wyandot	2											
Totals	66	18	60	65	16	16	79	21	24	7	280	71

NOSOLOGY—Continued.

DEATHS AND THE CAUSES OF DEATH, ETC.—Continued.

Class 5.—Violent deaths													
Order 2.		Order 3.		Order 4.		Order 5.		Order 6.		Order 7.		Total deaths, Orders 2, 3, 4, 5, 6, 7, Class 5.	
Battle or riot.		Homicide.		Suicide.		Execution.		Other violent deaths.		Sudden deaths and cause unknown.			
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
.....	1	.....	.....	.....	2	.....	5	.....	8	.....
.....	1	1	.....	.....	.....	.....	.....	1	1
.....	104	95	104	95
.....	7	9	7	9
.....	2	.....	14	20	20	20
.....	1	.....	.....	.....	.....	.....	14	12	15	12
.....	1	.....	8	6	9	6
.....	1	.....	1	.....	.....	.....	.....	.....	9	6	11	6
.....	32	25	32	25
.....	1	.....	.....	.....	4	1	29	31	34	32
.....	1	.....	.....	.....	.....	.....	.....	1	1	1
.....	2	.....	6	.....	1	.....	.....	.....	38	15	47	15
.....	2	.....	2	2	4	2
.....	2	.....	.....	.....	.....	.....	5	4	7	4
.....	1	2	.....	.....	6	1	10	10	17	13
.....	22	20	22	20
.....	11	2	11	2
.....	3	.....	7	15	10	15
.....	1	.....	1	.....	.....	.....	.....	.....	25	23	27	23
.....	1	.....	.....	.....	.....	.....	1	.....	25	34	27	34
.....	1	.....	.....	.....	.....	.....	2	.....	.....	.....	3	.....
.....	1	7	1	7
.....	5	6	5	6
.....	25	21	25	21
.....	1	.....	.....	2	.....	.....	.....	.....	15	26	16	26
.....	1	1	.....	.....	.....	.....	1	.....	32	30	34	31
.....	1	.....	1	1	.....	.....	.....	.....	14	6	16	7
.....	3	1	67	51	70	52
.....	1	.....	.....	1	.....	.....	.....	1	1
.....	1	.....	.....	.....	.....	.....	16	8	17	8
.....	1	.....	2	.....	.....	.....	5	.....	19	14	27	14
.....	1	.....	1	.....	.....	.....	1	.....	4	8	7	8
.....	1	.....	4	.....	.....	.....	.....	.....	24	24	29	24
.....	1	1	.....	.....	.....	.....	42	23	43	24
.....	1	12	10	12	11
.....	1	.....	.....	.....	.....	18	15	18	16
.....	1	.....	.....	.....	1	.....
.....	1	.....	4	.....	.....	.....	.....	.....	.....	.....	5	.....
.....	1	.....	1	2	.....	.....	1	.....	6	11	9	13
.....	1	.....	.....	.....	2	.....	6	3	9	3
.....	1	.....	.....	.....	.....	.....	13	19	14	19
.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	1	.....	10	7	11	7
4	24	3	73	20	3	.....	101	19	1645	1506	1850	1547

TABLE SHOWING THE NUMBER OF INQUESTS HELD IN OHIO BY CORONERS AND JUSTICES OF THE PEACE FOR THE YEAR ENDING JUNE 30, 1878.

Counties.	Homicide.	Suicide.	Killed by accident.	Other sudden deaths and deaths from unknown causes.	Total number of inquests held.	Nativity.		
						Native.	Foreign.	Unknown.
Adams	1	1			2			2
Allen		1	1		2			2
Ashland		1	1	2	4	1		3
Ashtabula	1			2	3	1		2
Athens	1	2	1	1	5			5
Auglaize				1	1			1
Belmont	1		10	1	12			9
Brown	2			6	8		4	4
Butler	2	6	16	8	32	7	6	21
Carroll		1		1	2			2
Champaign	1	2	7	1	11	6	4	1
Clarke		1	2	1	4	2		2
Clermont	1	1		5	7		1	6
Clinton	1				1			1
Columbiana	1		2	2	5	1	1	3
Coshocton*								
Crawford		1			1			1
Cuyahoga		10	11	1	22	6	14	2
Darke	1		4	1	6	4	1	1
Deftance		1	4	2	7	3	2	2
Delaware	3				3	1		2
Erie		4	19		23			23
Fairfield		4	3	4	11	2		9
Fayette	1	2	1	1	5	4	1	
Franklin	2	4	9	22	37			37
Fulton		2			2			2
Gallia	1	1	1	4	7			7
Geauga*								
Greene	1	2	3	3	9	4	1	4
Guernsey		2	1		3			3
Hamilton	26	63	160	301	540	135	108	297
Hancock	1				1			1
Hardin		1	1	2	4	4	2	
Harrison*								
Henry		1	2	1	4			4
Highland		2	7	2	11			11
Hocking				2	2			2
Holmes			2	2	4	1		3
Huron	2		3	1	6		1	5
Jackson		1	2		3	2		1
Jefferson	3	1	10	13	27	17	3	9
Knox	1	1		2	4			4
Lake		3	5		8			8
Lawrence	3	1	6		10		2	8
Licking	3	10	1	2	16			16
Logan	1		2	1	4	3		1
Lorain	1	2	10		13			13

TABLE SHOWING THE NUMBER OF INQUESTS HELD IN OHIO—Continued.

Counties.	Homicide.	Suicide.	Killed by accident.	Other sudden deaths and deaths from unknown causes.	Total number of inquests held.	Nativity.		
						Native.	Foreign.	Unknown.
Lucas	14	8	60	34	116	36	22	58
Madison	15	■	15	5	■	1	1	6
Mahoning	■	■	■	■	■	6	■	11
Marion	2	2	2	2	4	■	■	4
Medina	■	■	■	■	■	■	■	2
Meigs	2	1	3	■	6	■	■	6
Mercer	■	■	■	1	1	■	■	1
Miami	■	2	1	■	4	2	2	■
Monroe	1	1	5	■	6	■	■	6
Montgomery	2	10	9	23	44	28	14	2
Morgan	2	2	1	■	4	2	■	2
Morrow	1	1	1	■	2	2	■	■
Maskingum	1	6	9	2	16	16	1	1
Noble	■	■	2	■	2	■	1	1
Ottawa	■	2	7	2	11	6	1	4
Paulding	■	1	2	■	2	■	■	2
Perry	1	1	4	■	6	2	■	6
Pickaway	1	1	1	3	6	■	1	5
Pike	1	1	1	3	6	2	2	2
Portage	1	■	2	■	3	1	■	2
Preble	■	3	3	4	10	1	4	5
Putnam	■	■	1	■	1	■	■	1
Richland	3	3	8	3	17	2	■	15
Ross	6	4	6	7	23	1	■	22
Sandusky	2	2	2	1	7	5	1	1
Scioto	2	■	8	9	■	■	■	19
Seneca	■	3	■	■	4	2	■	2
Shelby	3	2	3	3	12	3	2	7
Stark	4	3	10	1	■	5	■	6
Summit	3	1	6	1	11	8	■	3
Trombull	■	3	17	■	20	■	11	6
Tuscarawas	1	4	3	■	8	1	■	3
Union	■	■	1	■	■	■	■	■
Van Wert	1	1	■	■	2	■	■	2
Vinton	■	■	■	2	2	■	■	2
Warren	1	2	■	■	■	■	■	11
Washington	■	2	1	2	5	1	■	4
Wayne	1	1	3	■	5	3	■	2
Williams	1	2	■	■	3	■	■	3
Wood	■	4	3	■	■	1	■	8
Wyandot	1	■	■	2	5	■	2	3
Totals	116	220	509	527	1372	362	235	775

* Not reported.

VITAL STATISTICS.

BY D. N. KINSMAN, M.D.

State medicine has only quite recently attracted the attention of scientific men in the United States of America. Several States have established Boards of Health, which have been doing a great amount of able work, notably, those of Massachusetts and Michigan.

Thus far the only work which has been provided for by the State of Ohio is the collection of vital statistics. And yet so little is this work appreciated by the county officers, whose duty it is to collect correct data, that their reports give intrinsic evidence of the gross imperfection. This work is worth all the effort which may be necessary to make the statistical reports of the Secretary of State of the highest excellence and reliability.

For a long time, in many of the leading nations of Europe, statistics have been carefully compiled. From their study, Buckle was able to deduce the law of averages, which controls all causes of death. Acts terminating in death, by firearms, runaways, etc., subjects when considered singly seemingly little capable of being referred to a general law when collected year after year, and compared with the total population, are found to have a ratio varying but little. Homicides, suicidal acts of all kinds against life, appear in the same manner, with almost a constant ratio to the population, making a man think himself in the hands of Fate, and no longer master of his own destiny.

Going into a deeper analysis, we find social habits, education, and poverty are factors which enter into the complex problem of medicine. From what has been already learned by the study of statistics in respect to Europe, we are led to expect much from those of America, when they shall be gathered. And it will be an interesting task when some future Buckle shall compare the civilizations of Europe and America, and from the testimony drawn from statistics, deduce the principles which have from the foundation of this Republic directed its course along lines parallel to or divergent from those already drawn by the old civilization.

Only when this is done fully, will finally be settled the question what is the best government for mankind. This is not a question answered by the preferences of this or that individual, or the am

personal freedom which every one may enjoy, but the answer must come only when, from the conclusions drawn from statistics, we can say the economic value of a human life is greater under this or that form of government. When the "classes" of the present time have lost their distinctions, and all have approached the "mean," under any form of government, the problem will be solved.

The gross mortality of a State, compared with the population, establishes the death ratio, but statistics which show the cause of each death have a far higher value. Such statistics should rest on an accurate diagnosis, and when this is possible, they become of the very highest value in State medicine.

The comparison of special mortality tables with soils, water-supplies, thermometric and barometric readings, largely determine the etiology of any given disease. The religious and social customs of any people may enter into the problem of causes of disease. The sweating sickness, which so severely scourged England in the fourteenth century, is believed to have depended upon the choice of locations for dwellings. The Black Death had overspread Europe from Asia during the middle of the fourteenth century. The impotence of medicine turned the attention of the whole people to an observance of their religious duties. Lent was observed with the greatest rigor. In order that a supply of fish might be easily obtained, men placed their habitations by the lakes and rivers. These became contaminated with the filth of the people, the water used for drinking poisoned, and the vapors arising from the foul streams contaminated the air, until the enfeebled bodies of men again became a prey to pestilence. Cholera epidemics of the present times furnish us with another example of the influence of religious fanaticism which, while working its own destruction, involves the whole race.

Our speedy modes of transit introduce and spread diseases with far greater rapidity than formerly, and cholera may appear at our doors in a few weeks, traversing the distance, hitherto occupying years, in as many months. Study of diseases, in respect to etiology and mortality, tells what the causes are, and whether it is to be feared. Physicians have a duty to discharge to the State, because much which is embodied in vital statistics must depend upon their reports. On them lies the duty of making a correct diagnosis in every case where it is possible. From the long list of deaths in the reports from the department of State which are included under dropsy, lung diseases, brain diseases, etc., without any effort further to specify their nature, an immense amount of indifference or negligence, not to call it by a worse name, may be readily seen.

In order that the reports of the Secretary of State may become of value,

let the physician giving information be specific in every particular; especially in the department of vital statistics, for he will be the first to derive benefit from perfect reports. Any benefit a community may secure will come second-hand.

Below I shall give some facts which I have been able to deduce from a study of the vital statistics of Ohio. I use the population of Ohio as given in the ninth census as the basis of calculation. In some instances I have been obliged to make corrections when the figures given gave intrinsic evidence of being wrong.

In Hamilton county the number of births reported for the year 1877 is 444; at the same time the number of deaths reported as occurring in children under one year, is said to be 811. This is obviously incorrect. In order to arrive at an approximate to the truth, instead of using 444 as the number of births occurring in Hamilton county, I have used 5,943, the number reported in 1874, since which time, as well as for several reports previous, no trustworthy data on this subject have been attainable.

Without this correction the mortality of Ohio for infants and children under five years would rank among the highest reported from any country in the world.

TABLE SHOWING THE RATIO OF MORTALITY OF NATIVE, FOREIGN, AND COLORED TO POPULATION.

Population of Ohio in 1870.		Per cent. of total.	Per cent of mortality 1870.	Per cent of mortality 1877.	Comparison of mortality with population in 1877.
Native born	2,229,782	83	64	78	5p'r cent. too small.
Foreign	372,493	14.2	33.6	20	5.2 too large.
Colored	63,112	2.4	2.4	2	0.4 too small.

There must be some cause for this variation of ratio.

The colored race, which is less affected by financial or other disturbances in our social life than the white, has maintained almost a constant ratio of mortality to its entire population. The native born, as well as the foreign, have approached their normal ratio during a period of seven years, but the mortality of the native white population has not yet equaled the ratio of population; while that of the foreign born is still excessive. What is the cause of this variation? This obviously must lie in the social condition and modes of obtaining subsistence. Our foreign population are artisans. They have been subject to great stress in the financial embarrassment of the country. Wages have been reduced, or there has been a loss of employment, and their greater poverty has

compelled them to live under less favorable circumstances in relation to subsistence, shelter, and clothing.

This is a state of things which is not peculiar to Ohio. The same condition of affairs exists in Massachusetts and other States from which we have been able to gather data.

The following table gives the ratio of deaths under one year and under five years to the total number of births in Ohio for 1877, and the countries and States named for other years :

Whole number of births	69,506
Deaths under one year	6,163
Deaths under five years	10,452

RATIO OF BIRTHS TO DEATHS.

Country.	Under one year.	Under five years.
Ohio	8.8	15.
Norway	10.71	18.82
Massachusetts	13.91	25.62
England	15.40	26.37
Russia	17.94	29.61
Bavaria	34.04	40.64

See Mass. Health Report, 1873.

If we could be sure of our ground, infant life has a higher value in Ohio than elsewhere in the world, a position hitherto held by Norway.

Dr. Farr says the proportion of children raised has doubled in one hundred years. In London the proportion of children who died under five years was, from 1730 to 1749, 74.5 per cent. ; from 1770 to 1789, 51.5 per cent. ; from 1851 to 1870, 29.8.

In London, from 1675 to 1732, convulsions, mainly a disease of childhood, caused 23.91 per cent. of all deaths ; from 1860 to 1870, 3.3 per cent. of all deaths. In Massachusetts, since 1843, 1.8 per cent. have died from convulsions. In Ohio, in 1877, convulsions have caused 3 per cent. of all deaths.

The following table will show that, although the ratio of deaths to births in Ohio is relatively very small, yet when compared with the total mortality is yet large.

Ratio of deaths to total mortality under one year, 21 per cent. ; under five years, 36.6 per cent.

Compared with the birth-rate the showing is more favorable in Ohio than any where else ; but when we compare the total mortality with that of infant life, we are in excess of that which we find obtaining elsewhere.

More than one-fifth of the mortality of Ohio occurs during the first year of life, and more than one-third under five years.

In this connection let us present some statistics from other sources. (See same Report of Massachusetts Board of Health.) In the British Isles, the following statistics were taken: Of 1,232 deaths occurring in the comfortable classes, the average age was 44 years; of 5,035 deaths among the poorer class, the average age was 27.47 years, while among the poorest classes the average age among 20,385 deaths was 19.58 years. In Boston, of children of native parentage, 16.47 died in the first year, and 26 per cent. before the fifth year; of children of foreign parentage, 18.13 died during the first year, and 32.79 per cent. before the fifth. This statement is of interest when we refer to the mortality of native-born and children of foreigners in Ohio. Still more interesting is the following statement from the same source: "In England, every person who is married is required to sign the register, and when unable to do so, to 'make their mark.' In the first class there were 648,260 marriages; of these, brides from 20 to 30 per cent. made 'their marks.' In the second class there were 661,929 marriages; of these, brides from 60 to 70 per cent. made 'their marks.' In the first class, 2,231,959 children were born, of whom 14.65 died during the first year. In the second class, 1,776,547 children were born, of whom 24.87 per cent. died during the first year; or, as often as 1,000 children of parents in the first class died, 1,698 of those in the second class died." Can any one doubt that the mortality would have been enhanced in a more startling degree had the comparison been made between an educated and completely illiterate class.

Then we are justified in saying the value of infant life increases *pari passu* with the intelligence, thrift, industry, and success of the community in which they are born, while it declines with the prevalence of ignorance and poverty.

It would be an interesting inquiry to ascertain the relative frequency of premature labors in the two classes, but data are not at hand to allow us to investigate this question.

My impression is that premature births are more common among the better classes, as a result of the social habits of the mother in relation to dress, etc. Further, that more children die as a consequence from a want of development among the comfortable classes, but of this I am not certain.

From Walker's Chart of the Ninth Census, we find Ohio is divided into three zones, in respect to density of population and relation of birth-rate to the population. Beginning in the north-east corner and drawing a line diagonally across the State, we have a territory irregular in out-

line, with from 45 to 90 inhabitants to the square mile. The territory, extending to the State line on the east and south to Marietta, has a child under one year to every 36 or 40 of the population. The region from Columbus east to Zanesville, south to the Ohio River, and west to the west boundary of Clermont county, has a population ranging from 18 to 45 to the square mile, with a child under one year to every 30 to 36 inhabitants. To the north of a line running east and west through Dayton, and north and south through Bucyrus, there is a population of from 18 to 45 to the square mile, and a child under one year to every 30 to 33 of the population.

What social and physical conditions account for the satisfactory condition of Ohio, in comparison with other States and countries?

1. Males are in excess of females in this State, and the wealth and power of any country or State depends upon her active laborers. The greater the number of "bread winners," the better is the provision for those who must be sustained.

2. The uniform distribution of wealth. The per capita distribution for the largest portion of Ohio is from \$550 to \$1,300. Only in the extreme north-west, in the comparatively recently settled portion of the State, and in the south-east section, does the per capita fall below \$550, and such are the physical conditions of these portions of the State that they are capable of a development to place them on a footing equal to the remainder of the State during the present or next decade.

3. General diffusion of education. While in the north-east part of the State, less than 5 per cent. of the population cannot read, in the other sections the proportion is less than 12 per cent.

4. Large proportion of native white population.

5. Great range of productive industries—agriculture, mining, and manufactures. More than 360 acres to the square mile are improved farm lands which produce corn, wheat, and other cereals and dairy products. Hence the few are pinched with want, while the great majority are in comfortable circumstances in "mind, body, and estate."

RATIO OF DEATHS FROM ALL CAUSES TO THOSE CAUSED BY

Contagious, infections, and miasmatic diseases.....	7,867	27.6
Constitutional diseases	4,431	15.5
Nervous diseases	2,989	10.4
Circulatory diseases	991	3.4
Respiratory "	2,824	9.9
Digestive "	1,084	3.8
Urinary "	350	1.2
Child-birth	243	.8

COMPARATIVE MORTALITY OF CERTAIN DISEASES IN OHIO AND THE UNITED STATES,
AS SHOWN BY THE NINTH CENSUS AND STATE REPORTS OF 1870, 1877, AND 1878.

	Consumption.	Cholera infantum.	Croup.	Measles.	Intermittents and re- tents.	Small pox.	Scarlatina and Diph- theria.	Pneumonia.	Cancers.	Cerebro-Spinal, enteric, and typhus fevers.	Dysentery and diarr- hoeas.
1870—U. States..	14.2	4.1	2.2	1.9	2.3	0.9	5.4	8.1	1.3	5.	6.3
1870—Ohio	17.8	3.8	1.9	2.1	1.2	1.1	3.5	6.8	1.4	4.8	6.4
1877—Ohio	14.2	3.9	2.2	1.1	1.6	0.9	3.3	2.8	1.4	2.6	2.2
1878.....	12.3	3.1	1.7	0.6	1.3	.01	7.3	2.3	1.6	5.2	2.2

The impression is gaining ground, in England and America, that cancers are causing greater mortality than formerly. It is an interesting question as to what has caused "this rebellion of cells," as it has been termed. It is an interesting fact that the mortality from pneumonia in Germany is reported, by Juergeusen, at six and six-tenths per cent. or twelve per cent. of all the mortality from internal diseases. This shows agreement of statistics in Europe and Ohio. Most impressive is the lesson conveyed by the tables above. The teaching in respect to consumption is particularly suggestive. Authorities concur, in Europe, in telling us that consumption causes twenty-eight per cent. of the total mortality in France and Germany. The statistics of the United States give a mean per cent. of 14.2 of the entire mortality of the country, which is the exact ratio of Ohio in 1877. This shows, as plainly as possible, the chances of perishing from consumption are just one-half as great as in Europe.

We refer for an explanation of this result to the statements which we made above in respect to the causes of the increased value of infant lives in Ohio.

Those influences which husband infant lives, cause stronger and better development of youth and early manhood, and greater resistance to decline. Diarrhoeal diseases have declined in Ohio. This may be an effect of time. Many soldiers, after the late war, returned home with camp diseases, *i. e.*, diarrhoeas and dysentery. They have died or recovered, and this factor in mortality has diminished sixty-six per cent.

When we study the distribution of mortality from consumption in Ohio we observe some very interesting features. There are three sections which have a mortality of 2,000 in every 10,000 deaths from all causes.

The first of these sections consists of the counties bordering upon the lake; the second section includes an irregularly shaped territory, consisting of Crawford, Richland, Morrow, Knox, Coshocton, Carroll, Jefferson, Harrison, Belmont, Monroe, Washington, Morgan, Noble, Guernsey, and Muskingum counties; the third section is composed of Darke, Preble, Montgomery, Greene, Warren, Clinton, Clermont, Highland, Brown, and Adams. There are, then, three other sections which have a mortality of 1,400: 10,000 deaths from all causes. These sections comprise the remainder of the State, except six counties which lie like an oasis in the regions around: these are Mercer, Van Wert, Auglaize, Allen, Hardin, and Logan, which have a mortality of 900: 10,000 deaths from all causes.

The causes which underlie this difference in mortality are not now apparent. We may remark, however, that the region of the lakes may have its mortality affected by its proximity to such a large body of water—it having been assumed by some writers that the moisture derived from large bodies of water is an etiological factor in consumption. These territories cross all the geologic systems of the State. Why the southern central portion of the State should be bounded on the west by a territory of greater mortality, as well as on the east, is not clear, for the geologic structures as well as the soils are different. The western section contains some of the finest and best cultivated lands of the State. The inhabitants are as comfortably situated as those of any section of the State. On the east of the same section, the country is hilly and broken; in fact, is such a country as Dr. Sabin found in New England to be, populated by a class of people less able-bodied than those who lived in the valleys. This was attributed by him to the sparseness of the population and their inability to readily secure medical aid when suffering from catarrhs of the air passages, and to this may be added greater difficulty in procuring suitable food. These factors counterbalance the advantages of a better atmosphere.

I am not familiar with the surface conditions of the soils of these regions. Herein may be found another factor, for it has been proven fully, by Bowditch, that a thin soil, with the water approaching the surface of soils apparently dry, is a powerful predisposing cause of consumption. When we compare the mortality from consumption with that from miasmatic diseases, we are struck with the fact that those territories which suffer most from consumption are those which suffer the least from miasmatic diseases.

This has been traditional in the profession in Ohio for many years, but these charts render the statements positive. The distribution of enteric, cerebro-spinal, and typhus fevers is equally interesting, but our limits

do not allow us to enter into its discussion at this time. It has been found in Europe that the average yearly sickness amounts to nineteen or twenty days per person; that for every death two persons are constantly sick—which makes every death represent an illness of seven hundred and thirty days.

The mortality in the hospitals of America and Europe, gives one death for every ten of those who are admitted. In America it has been estimated one in every twenty-eight who are sick die. With the above statements before us, we are now able to study the economic side of the vital statistics of Ohio. There were 28,460 deaths during 1877. Each death represents a loss of two years time or 730 days, or an aggregate loss of time of 56,920 years. Estimating the active working life of a man at twenty years, we find each year in Ohio there is a loss of labor amounting to the life work of 2,846 men. Reckoning an average pay of one hundred and fifty dollars per year, and this represents a yearly loss of capital to the State of Ohio of \$8,538,000, not including the items which must be added for medical attendance, nursing, etc. It is only when we go into the study of figures, that we can appreciate the influence of disease on a community. A point we must not lose sight of, is that diseases which afflict humanity are not matters of chance. They are as much subject to laws as anything else. They are dependent upon a concurrence of certain conditions which are known as etiological factors. These factors are two-fold internal and external to the patient; remove either of the two and the possibility of disease is at an end. In respect to the patient we have to consider organization, constitution, and general condition of the body. The stronger the body is, the more certainly it can strive against the general causes of disease. A robust body gives, however, no immunity against special causes of disease. The special causes comprise the viruses and contagions. These all have their course when once they gain entrance to the body in spite of its condition.

But it has been further learned that these specific contagions have their peculiar modes of evolution and propagation.

1. In one class, the contagion is found in the human body alone, and can act immediately on another unprotected human body.

2. In another class the contagion is found in the human body, but as it escapes from the body it is harmless, and only becomes active after a more or less prolonged sojourn outside of the body under favorable circumstances.

3. And yet another class of diseases arises from infecting matter which is produced external to the body, and by its reception becomes the factor of disease.

The recognition of these modes of evolution and propagation of disease, has enabled physicians to say diseases are of two general classes, preventable and non-preventable. The more diseases have been studied, the larger has the first class become, and there is no doubt that many diseases whose causes are as yet unrecognized, will, in time, give up their etiological secret and become subject to hygienic precautions.

State medicine can indicate to the executive branch of a government what is necessary to save life and protect health, but when this is left to the option of any people, prejudice or superstition on the part of a few, may cause such a neglect of measures of common safety as seriously to threaten the safety of the majority. This is notable in the case of small pox. Vaccination, thoroughly performed and repeated, till susceptibility to its action is extinguished, will, I have no doubt, protect from small pox, and yet 265 persons died from this disease in Ohio in 1877, a mortality of nearly one per cent. Certainly if we legislate against petty larceny, and other crimes against persons, much more should legislation be had on the subject of vaccination, which, we believe, will save the one per cent. of annual loss of life from small pox in Ohio, and the United States. As to measles, and scarlet fever, we know their ravages can be stayed by isolation of the patients and systematic disinfection. These diseases give no evidence of arising *de novo*. The germ must fall on a favorable soil for its development. Restrict the action of the germ by isolation and destruction and the disease will cease. On the Faroe Islands there were no cases of measles from 1781 to 1849. Then the poison of the measles was carried to the island, and all but 1,500 of 7,782 of the population took the disease, which only ceased when the material on which it could thrive was exhausted.

There is a fatalistic notion which has taken root in the minds of parents, that there are certain classes of affections known as "children's diseases," which all must suffer unless they have a natural immunity. This was the feeling in the eighteenth century in regard to small pox, and then, as now, the effort was not so much to avoid infection as to select a favorable season. This is a false philosophy, which must be rooted out of the minds of the people. Let them understand there are no favorable times for sickness, and then, and not until then, will scarlet fever and diseases of its class, cease to send their hecatombs to death every year. Under the same head we may place diphtheria, whose causes are yet but little known. One thing we know, it is contagious, and the kiss of affection upon the lips of the infected one, has planted the seeds of death in the loving parent or child. The death recently of Princess Alice, of the royal family of England, is a melan-

choly instance in point. Her infection was derived from her child who had been sick of diphtheria. Dr. E. M. Snow says: "It is certain that diphtheria is a filth disease, and usually spreads from the influence of foul air arising from localized filth. The contagion of diphtheria never produced any extensive prevalence of the disease without the presence and aid of this local filth. A mortality of 1469 is due to this cause in Ohio in 1877. How shall we reach the people to tell them of their peril from filth?"

In their experience with the second class of diseases, physicians have won their greatest victories. It is true, not as healers, but in the prevention of diseases. In the second class we place typhoid fever, cholera, and yellow fever.

Sanitary measures seemed impotent in the contest with yellow fever during the last summer and autumn. But we must remember that the epidemic began its march from causes existing. These causes could not be removed during the epidemic, for all effort was palsied or exhausted in the terrific struggle with a present foe. Sanitary measures will not prevent its return, or rob it of its strength. The cholera epidemic of 1849 is still fresh in the minds of my readers. The progress of this disease was arrested in central Ohio, for it did not spread north of Springfield east of Lancaster. This was due to the energetic sanitary measures.

Typhoid fever is in like manner subject in a large measure to the same sanitary precautions. It is unfair to any family to allow the disease to spread unchecked, without an effort to ascertain the cause. The cause can, in the greatest number of cases, be discovered, and when discovered they can be destroyed. Filth is the parent or the foster parent of this class of diseases. Remove filth and you remove the soil on which the disease germs thrive. We have known scarlet fever and typhoid fever to follow the milk-man's cart. The germs of these diseases found their way to the milk by its exposure to the poison-laden air, and the water used to cleanse the cans, or for a less justifiable purpose, had been contaminated before use.

Drainage and cultivation has diminished very largely the mortality in Ohio from miasmatic diseases during the last score of years, but much more remains to be done.

The pride of Ohio is her public school system. But more is now spent in making the exterior of the buildings attractive than to make their interiors healthy—and when I study the statistics and observe the sudden rise in mortality from consumption, at the ages when school life is ended, I cannot but think there is some connection between it and the long confinement of pupils in over-crowded rooms; for it is a fact that no

the larger towns of Ohio that have accommodations sufficient to suitably provide for their pupils. Lack of breathing space means filth, and filth causes death.

During the last 200 years the working period of human life has extended from 8½ years to twenty years. What has caused this? Increased comforts, better food, shelter, and clothing, higher and better education, a constantly increasing efficiency in the medical profession, and the recognition of removable causes of disease; and the establishment of health boards all tend to the production of this result.

Yet the vital statistics of Ohio show an alarming prevalence of a class of diseases, which are known to be to a very great extent under the control of sanitary measures. Has the State any duty to her population in this behalf. The allegiance of a citizen is due to the State, and the State may demand his life in her defence. Does not the State, in turn, owe the citizen something more than the protection accorded to him in the constitution. In my opinion there is something more demanded than is conceded in the bill of rights. The State owes it to her citizens to ascertain all causes which threaten life and comfort, so far as practicable. The State owes to her citizens protection—from diseases and death—when this protection can be given. The establishment of a State Board of Health, composed of men of known ability, regardless of political faith, to study carefully and exhaustively all forms of disease, whether epidemic or sporadic in relation to their causation, is imperatively demanded by the humanitarian spirit of the age. Their conclusions should be given to the people for their instruction and protection.

The citizens of the State who live in the rural sections must be taught in what manner they are constantly allowing to accumulate on their premises heaps of filth which contaminate the springs from which they drink. They must be taught that the wells on their premises may become pits into which all forms of filth thrown upon the surface of the soil may drain. They must be taught that in the open country that the common privy becomes a nuisance to taint the air and enfeeble the body and thus render it an easy prey to all forms of disease.

The greater care devoted to these things in our cities has inverted the ordinary death rate, and our cities are now healthier than the country districts. Here is work for a State Board of Health, which, if ever accomplished in Ohio, will yield a better interest on the investment than any other industry.

AMERICAN SOCIAL SCIENCE ASSOCIATION IN BOSTON.

Mr. George T. Angell read a paper before the American Social Science

Association in Boston, on January 8, "Public Health Association" in which he made some startling assertions about the adulterated food. He said:

"Cayenne pepper is adulterated with red lead, mustard with chromate of lead, powder with red lead, vinegar with sulphuric acid, arsenic, and corrosive sublimate. It is stated that probably half the vinegar now sold in our cities is rank poison. Our Boston chemists analyzed twelve packages of pickles, put up by twelve wholesale dealers, and found copper in ten of them. Many of our flavoring oils, jellies, and preserved fruits contain poisons. The adulterations of tea are too numerous to mention. Coffee is not only adulterated, but a patent has been taken out for mixing chicory into the form of coffee berries, and I am told that clay is now molded perhaps flavored with an essence, to represent coffee. Cocoa and chocolate are adulterated with various mineral substances.

"Several mills in New England, and probably many elsewhere, are now engaged in grinding white stone for purposes of adulteration. At some of these mills they grind three grades—soda grade, sugar grade, and flour grade. It sells for about half a pound. Flour has been adulterated in England, and probably here, with plaster of paris, bone dust, sand, clay, chalk and other articles. I am told that large quantities of damaged and unwholesome grain are ground in with flour, particularly wheat of the kind called the Graham flour. Certainly, hundreds, and probably thousands, of pounds of 'terra alba,' or white earth, are sold in our cities every year to be mixed with flour in confectionery and other white substances. I am told by an eminent physician that this tends to produce stone, kidney complaints, and various diseases of the stomach. A Boston chemist tells me that he has found seventy-five per cent. of 'terra alba' in cream of tartar used for cooking. A large New York house sells three pounds of cream of tartar. A Boston chemist recently analyzed a sample of the best and found fifty per cent. of 'terra alba' in them. Much of our confectionery contains thirty-three per cent. or more of 'terra alba.' The coloring matter of confectionery contains lead, mercury, arsenic, and copper. Baking powders are widely sold which contain a large percentage of 'terra alba' and alum.

"It is not water alone that is mixed with milk. Thousands of gallons, and perhaps hundreds of thousands, are sold in our cities which have passed through large vats, in which it has been mixed with various substances. Receipts for the mixture can be bought by new milkmen from the old, on payment of the required sum. I am assured, upon what I believe to be reliable authority, that thousands of gallons of milk have been, and probably are, sold in this city, which do not contain a drop of the genuine article. Large quantities of the meats of animals more or less diseased are sold in our markets. Cows in the neighborhood of our large cities are fed on material which produces a large flow of unwholesome milk. Poultry is fed on material which produces unwholesome eggs. Meats and fish are made unwholesome frequently poisonous, by careless and cruel methods of killing. A California chemist recently analyzed many samples of whisky, purchased at different places in San Francisco. He found them adulterated with creosote, salts of copper, alum, and other injurious substances. He states it in his published report, as his opinion that there is hardly any pure whisky sold in that city. A gentleman recently purchased from a prominent Boston firm a cask of pure sherry wine for his sick wife. His wife grew worse. He had the wine analyzed, and found there was not a drop of the juice of grape in it. An eminent medical gentleman of Boston said to me: 'The adulterations of drugs in this country are perfectly abominable.' I say that laws should

enacted and enforced prohibiting the manufacture and sale of these poisonous and dangerous articles under severe penalties, and compelling the manufactures and sellers of adulterated articles to tell buyers the precise character of the adulterations."

Does any one believe these methods of adulterations of food and drink are peculiar to Massachusetts? Certainly they are not and the protection of our population demands a Board of Health in Ohio who shall fearlessly unearth all such villainies and visit upon the perpetrators the punishment their crime against humanity demands.

PUBLIC DEBTS, PROPERTY,
AND
TAXATION.

PUBLIC DEBTS, PROPERTY, AND TAXATION.

The tables relating to State indebtedness, the debts of counties, townships, cities, villages, and school districts in Ohio, valuations, property, and taxation, are collated from the report of the Auditor of State, for current year :

THE PUBLIC FUNDED DEBT OF THE STATE.

On the 15th day of November, 1877, the Public Funded Debt of the State
was \$6,479,505 30

The redemptions during the year were—

Loan of 1875	2,700 00
Balance outstanding November 15, 1878.....	<u>\$6,476,805 30</u>

This sum consists of the following loans—

FOREIGN DEBT—PAYABLE IN NEW YORK.

Loan payable July 1, 1868, not bearing interest.....	\$2,500 00
Loan payable after June 30, 1881, bearing 6 per cent. interest.....	4,072,640 30
Loan payable after December 31, 1886, bearing 6 per cent. interest.....	<u>2,400,000 00</u>
Total Foreign Debt	\$6,475,140 30

DOMESTIC DEBT—PAYABLE AT COLUMBUS.

Canal loan, not bearing interest.....	<u>\$1,665 00</u>
Total Domestic Debt.....	<u>\$1,665 00</u>
Total Funded Debt.....	\$6,476,805 30

IRREDUCIBLE STATE DEBT.

Trust funds	\$4,260,983 78
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LOCAL DEBTS.

The debts of counties, townships, cities, villages, etc., are shown in the annexed table :

COMPARATIVE STATEMENT OF THE STATE AND LOCAL DEBTS, FROM 1872 (THE FIRST YEAR IN WHICH RETURNS WERE MADE UNDER THE ACT OF MAY 2, 1871) TO 1878 INCLUSIVE.

Class of Debts.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Funded State Debt (loans).....	\$8,583,546 37	\$9,211,062 10	\$7,958,205 30	\$7,949,920 12	\$6,484,505 30	\$6,479,505 30	\$6,476,805 30
Irreducible State Debt (trust funds)...	4,023,475 03	4,070,500 96	4,121,393 52	4,177,668 31	4,207,716 90	4,231,404 53	4,260,983 78
Local Debts.							
Debts of counties.....	\$3,756,436 03	\$3,125,532 27	\$3,482,575 62	\$3,044,578 90	\$2,934,099 43	\$2,909,462 27	\$3,169,517 42
Debts of cities, first and second class...	11,496,591 04	14,527,108 78	15,899,112 83	20,250,722 11	*30,510,503 68	*33,762,136 07	35,799,851 70
Debts of incorporated villages	616,559 63	730,582 38	884,355 18	931,362 64	1,074,069 05	979,351 15	917,417 64
Debts of townships.....	447,238 10	401,510 18	329,339 08	222,974 13	226,724 83	208,382 58	160,955 72
Debts of separate (special) school districts.....	1,274,723 17	1,248,349 71	1,290,624 65	1,507,953 43	1,314,581 57	1,469,237 03	1,158,098 14
Total Local Debts.....	\$17,590,547 97	\$20,033,123 32	\$21,886,007 36	\$25,957,588 21	\$36,059,978 56	\$39,328,569 10	\$41,205,840 62

* Increase of debts of cities in 1876 and 1877, principally in Cincinnati.

Net increase in Local Debts over last year \$1,

This increase is described as follows :

Gain in cities.....	\$2,
Gain in counties.....	
Gross increase.....	\$2,
Decrease in townships.....	\$47,426 86
Decrease in villages.....	61,933 51
Decrease in school districts.....	311,138 89
Net increase, as above.....	\$1,

VALUATION.

The value of all the taxable real estate and personal property according to the consolidated tax duplicate for 1878, is as follows

Real estate in cities, towns, and villages	\$381,8
Real estate not in cities, towns, and villages.....	709,2
Chattel property.....	461,4
Total taxable values for 1878	\$1,552,8
Net decrease in the valuations, as compared with 1877.....	\$22,0

Again, it will be observed that this decrease is confined to property, there being a small increase in each class of real estate does not follow that there has not been a great depreciation in the market values of real estate, but it shows that the decennial valuation of real estate for taxation causes a uniformity in the basis of taxation for each class of property.

THE TAXES FOR 1879.

The taxes for the current fiscal year (1879,) levied upon the basis of \$1,552,577,504.00, are as follows :

FOR STATE PURPOSES.

For General Revenue Fund (4-10 of a mill)	\$6
For Asylum Fund (1 mill).....	1,5
For Sinking Fund (1-2 mill).....	7
For Common School Fund(1 mill).....	1,5
Total for State purposes (2 9-10 mills).....	\$4,4

FOR COUNTY PURPOSES.

For county expenses.....	\$2,141,177 76
For the poor.....	786,298 24
For bridges	1,446,812 22
For buildings.....	536,356 01
For roads.....	1,091,669 60
For payment of debts	427,314 81
Total for county purposes	\$6,429,628 64

FOR LOCAL PURPOSES.

For township expenses	\$855,550 26
For schools and school houses	5,546,656 52
For city, town, and village purposes.....	7,391,627 34
For other special purposes.....	1,604,606 53
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Total township, city, school, and special taxes.....	\$15,398,440 65
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Total county and local taxes levied in 1878.....	\$21,828,069 29
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Total levies made in 1878 for all purposes	\$26,324,445 30
Add delinquencies and forfeitures of previous years.....	2,235,320 56
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Total taxes for 1879, including delinquencies	\$28,559,765 86

. COST OF COLLECTING TAXES.

The probable collection of taxes is estimated by the Auditor of State at two per centum less than the levy, and the expense and loss in collection at two per cent. of the gross amount.

Estimated cost of collecting taxes in 1879, as above, \$89,848.00.

UNITED STATES.

Internal revenue tax collected in Ohio by the United States, during the fiscal year ending June 30, 1878 :

From Ohio banks and bankers	\$193,810 60
" Fermented liquors	935,455 40
" Spirits.....	10,124,478 65
" Tobacco	3,474,082 98
" Penalties, etc	23,274 42
" Other sources.....	12,149 80
<hr/>	
Total	\$14,763,251 85

TABLE EXHIBTING A COMPARATIVE SUMMARY OF THE GRAND DUPLICATES OF OHIO FOR SEVENTY-NINE YEARS, BEGINNING WITH THE YEAR 1800 AND ENDING WITH THE YEAR 1878.

Years.	1st quality of land.		2d quality of land.		3d quality of land.		Total number of acres.	Rate of taxation per 100 acres.			Total taxes.
	Acres.		Acres.		Acres.			1st quality.	2d quality.	3d quality.	
1800	.....		.....		.....		.....	\$0 85	\$0 60	\$0 25	\$19,240 67
1801	.....		.....		.....		.....	55	35	17	29,114 19
1802	.....		.....		.....		.....	60	40	20	22,923 09
1803	.....		.....		.....		.....	60	40	20	22,331 06
1804	101,709		3,326,226		3,641,694		7,069,629	70	50	26	22,331 04
1805	.....		.....		.....		.....	90	65	40	43,512 95
1806	.....		.....		.....		7,252,856	90	65	40	43,512 95
1807	.....		.....		.....		7,917,590	90	65	40	48,260 48
1808	.....		.....		.....		7,886,840	90	65	40	43,632 79
1809	.....		.....		.....		10,479,029	1 00	75	50	67,501 60
1810	147,093	5,080,131	5,080,131	5,251,803	5,251,803		9,924,033	1 00	75	50	63,991 87
1811	141,805	3,971,825	3,971,825	5,810,403	5,810,403		9,933,099	1 25	1 00	65	85,964 39
1812	129,741	4,177,950	4,177,950	5,625,408	5,625,408		12,134,777	1 25	1 00	65	170,546 74
1813	234,335	6,456,113	6,456,113	5,444,329	5,444,329		11,370,032	1 25	1 00	65	155,137 07
1814	185,775	5,585,367	5,585,367	5,598,890	5,598,890		10,934,323	1 25	1 00	65	108,761 24
1815	179,666	4,858,750	4,858,750	5,895,907	5,895,907		11,095,878	2 00	1 50	1 00	162,196 48
1816	180,370	4,919,968	4,919,968	5,995,540	5,995,540		11,090,214	3 60	2 68½	1 78	259,486 19
1817	174,819	4,856,997	4,856,997	6,058,398	6,058,398		10,639,104	3 75	3 00	2 00	229,897 98
1818	173,741	4,366,846	4,366,846	6,098,517	6,098,517		11,331,620	3 00	2 25	1 50	231,811 68
1819	165,492	5,027,390	5,027,390	6,138,738	6,138,738		11,714,468	2 00	1 50	1 00	169,185 43
1820	205,344	5,174,726	5,174,726	6,334,398	6,334,398		12,639,040	1 50	1 00	50	179,475 62
1821	126,138	5,251,270	5,251,270	7,261,632	7,261,632		13,319,043	1 50	1 00	50	205,346 95
1822	255,082	7,304,638	7,304,638	5,759,323	5,759,323		14,380,224	1 00	75	50	171,648 68
1823	242,914	7,734,974	7,734,974	6,402,336	6,402,336		13,682,454	1 50	1 12½	75	188,647 53
1824	226,084	6,870,921	6,870,921	6,585,449	6,585,449		14,110,381	1 50	1 12½	75	194,289 95
1825	234,600	6,859,439	6,859,439	7,016,342	7,016,342		14,720,648	1 25	87½	56	170,761 20
1826	222,852	6,822,230	6,822,230	7,675,566	7,675,566		13,025,073	1 50	1 12½	75	200,405 25
1827	178,998	5,672,277	5,672,277	7,173,798	7,173,798						

COMPARATIVE SUMMARY—Continued.

Years.	Value of realty.	Value of personalty.	Total value of taxable property.	State tax.	Total taxes on duplicate.
1896	\$15,946,840	\$11,035,890	\$27,982,640	\$105,816	\$399,783
1897	47,208,486	12,375,336	59,583,822	183,530	473,084
1898	50,116,513	12,166,841	62,283,354	187,908	496,481
1899	49,511,733	16,789,170	66,300,903	174,412	441,191
1900	50,086,250	14,589,335	64,675,578	232,472	506,595
1901	50,027,110	15,793,666	65,820,776	240,991	615,651
1902	50,013,412	10,222,620	60,236,032	264,954	665,909
1903	52,290,851	19,738,075	72,028,926	267,079	730,010
1904	57,399,577	23,500,073	80,899,650	272,434	703,104
1905	75,760,797	21,188,408	96,949,205	267,854	805,050
1906	73,233,906	27,029,444	100,263,350	211,932	1,007,216
1907	72,782,176	25,890,566	98,672,742	247,284	1,205,369
1908	80,923,609	26,553,182	107,476,790	234,061	1,503,210
1909	83,040,406	28,143,791	111,184,197	255,475	1,770,161
1910	85,267,361	27,036,295	112,303,656	264,435	1,755,539
1911	100,851,837	27,561,680	128,413,517	442,153	1,890,465
1912	104,324,013	28,021,822	132,345,835	690,750	2,096,857
1913	105,496,324	28,107,412	133,603,736	934,999	2,361,643
1914	107,142,152	29,060,514	136,202,666	946,906	2,340,663
1915	108,120,744	35,974,725	144,095,469	1,000,001	2,400,171
1916	109,940,636	40,352,496	150,293,132	1,214,897	2,580,073
1917	108,796,730	53,964,410	162,761,140	1,181,395	2,847,673
1918	130,920,273	90,072,718	220,992,991	1,205,709	3,241,855
1919	145,832,311	95,000,074	240,832,385	1,296,547	3,631,378
1920	141,899,846	96,407,502	238,307,348	1,413,830	4,287,708
1921	146,341,233	115,007,367	261,348,600	1,607,392	4,957,013
1922	154,011,147	152,644,763	306,655,910	1,770,547	5,674,335
1923	161,490,900	229,900,947	391,391,847	2,026,324	7,021,205
1924	169,895,410	297,061,572	466,956,982	3,077,601	9,098,339
1925	177,834,519	264,000,615	441,835,134	3,754,007	10,554,514
1926	190,634,467	240,026,550	430,661,017	3,636,169	10,000,516
1927	160,620,622	264,194,967	424,815,589	2,400,395	8,674,290
1928	190,265,947	240,514,064	430,780,011	2,978,129	9,756,650
1929	194,114,004	254,795,947	448,909,951	2,997,918	10,005,606
1930	209,659,311	248,808,280	458,467,591	3,004,113	10,017,894
1931	243,201,552	219,000,580	462,202,132	4,136,479	11,856,614
1932	245,670,080	243,615,619	489,285,699	4,120,473	12,000,385
1933	249,000,022	229,074,222	478,074,244	4,162,606	11,859,574
1934	255,400,100	351,190,018	606,590,118	4,389,963	16,493,639
1935	500,500,939	409,047,776	909,548,715	5,663,367	20,709,992
1936	661,647,942	442,864,379	1,104,512,321	5,805,167	22,000,437
1937	673,993,757	464,761,029	1,138,754,786	5,991,199	22,455,615
1938	693,452,607	460,000,299	1,153,452,906	5,797,412	22,459,146
1939	697,418,205	459,769,223	1,157,187,428	5,745,476	22,482,677
1940	707,848,643	420,004,061	1,127,852,704	5,666,242	22,165,631
1941	1,025,619,034	470,510,817	1,496,129,851	6,150,729	24,005,366
1942	1,030,167,568	493,159,390	1,523,326,958	6,114,557	24,149,979
1943	1,041,763,931	525,510,706	1,567,274,637	5,477,559	26,131,353
1944	1,052,257,336	526,121,368	1,578,378,704	5,130,367	26,637,196
1945	1,063,911,044	535,660,618	1,599,571,662	4,946,993	27,064,971
1946	1,076,100,387	590,661,509	1,666,761,896	4,830,630	26,321,256
1947	1,084,433,379	490,190,367	1,574,623,746	4,596,479	27,514,630
1948	1,091,116,902	461,460,558	1,552,577,460	4,496,376	26,264,645

There were re-valuations of the real property of the State for the years 1896, 1903, 1941, 1947, 1954, 1961, and 1971.

NOTE.—Prior to 1896 real estate only was brought upon the duplicate for taxation for State purposes. Funds for county purposes were derived from a poll tax, and a tax upon horses, mules, and cattle, to which was added, by legislative appropriation, a percentage from one-fifth to one-half, varying with the several years, from the taxes levied upon real estate.

Under the act of February 3, 1923, which took effect March 1, 1926, all taxable property was placed upon the grand duplicate, viz., lands and town lots, including buildings, horses, cattle, pleasure carriages, and merchants and brokers' capital, to which was added "money loaned at interest," and manufacturers' capital, under the act of March 14, 1931.

Under the act of March 2, 1946, a new system of taxation was inaugurated, which, with various slight modifications, is now in force.

TABLE SHOWING A COMPARATIVE SUMMARY OF THE GRAND DUPLICATES OF OHIO FOR SEVEN YEARS, BEGINNING WITH 1872 AND ENDING WITH 1878, GIVING THE VALUATIONS FOR EACH YEAR, AND THE AGGREGATE TAXES FOR EACH SPECIFIC OBJECT, WHETHER FOR STATE COUNTY, OR LOCAL PURPOSES.

	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Number of acres of land.....	25,421,137	25,446,107	25,416,994	25,458,323	25,350,658	25,426,707	25,201,743
VALUATIONS.							
Value of lands	\$699,478,744	\$698,815,731	\$697,408,537	\$696,883,323	\$704,940,269	\$705,896,953	\$709,223,985
“ real est'e in cities and towns	330,684,784	342,948,200	354,749,199	366,031,712	371,848,098	378,558,425	381,892,967
“ chattel property	494,159,590	525,510,708	528,121,588	535,660,818	520,681,500	490,190,357	461,460,552
Total taxable valuation.....	\$1,524,323,118	\$1,567,274,639	\$1,580,379,324	\$1,598,575,862	\$1,597,469,966	\$1,574,645,765	\$1,552,577,504
STATE TAXES—RATE.							
	2.9 Mills.	3.5 Mills.	3.2 Mills.	3.1 Mills.	2.9 Mills.	2.9 Mills.	2.9 Mills.
For Sinking Fund.....	\$1,217,350 44	\$1,251,695 34	\$1,262,170 08	\$1,276,725 71	\$797,401 14	\$785,977 64	\$774,939 51
For General Revenue Fund	1,673,852 75	938,773 16	788,856 24	638,357 77	637,916 87	628,782 26	619,972 43
For Asylum Fund .....	.....	1,621,082 45	1,419,940 59	1,436,312 59	1,594,802 08	1,571,956 45	1,549,880 10
For State Common School Fund	1,523,354 06	1,566,308 30	1,579,400 51	1,597,599 12	1,596,500 12	1,573,663 28	1,551,583 97
Total State taxes.....	\$4,414,557 25	\$5,477,859 25	\$5,050,367 42	\$4,948,995 19	\$4,626,620 54	\$4,560,379 63	\$4,496,376 01
COUNTY TAXES.							
For county expenses.....	\$2,005,513 57	\$2,000,576 32	\$1,956,547 16	\$2,098,662 11	\$2,221,274 06	\$2,150,154 86	\$2,141,177 76
For poor purposes	623,150 29	743,722 04	706,269 60	746,423 43	837,954 58	827,429 75	786,298 24
For bridge purposes	1,449,367 26	1,405,309 74	1,389,371 82	1,613,849 32	1,596,435 06	1,554,471 97	1,446,812 22
For building purposes	714,863 13	606,947 80	646,340 15	669,303 54	677,097 84	618,031 98	536,356 01
For road purposes	998,022 58	1,086,592 33	1,061,469 86	1,109,001 25	1,231,955 30	1,130,217 27	1,091,689 60
For payment of debts	553,098 51	280,618 57	278,751 19	422,227 93	389,850 66	319,447 51	427,314 41

TOWNSHIP, SCHOOL, SPECIAL, CITY, AND TOWN TAXES.									
For township expenses.....	\$681,359 59	\$740,054 49	\$401,335 90	\$220,279 34	\$458,543 96	\$46,717 65	\$455,550 28		
For school and school-house purposes	5,383,614 04	5,190,222 60	6,005,533 77	6,362,533 73	5,913,240 30	5,796,502 47	5,546,656 52		
For city and village purposes.....	5,558,129 05	6,447,502 61	7,236,420 27	7,474,904 15	4,179,554 64	7,915,092 45	7,391,627 34		
For other special purposes.....	487,300 43	1,111,937 44	1,404,746 63	1,682,791 54	1,944,749 58	1,876,205 19	1,604,006 53		
Total town'p, spec'l, and city taxes	\$12,490,407 15	\$14,529,717 14	\$15,744,079 57	\$16,844,508 60	\$16,940,068 78	\$16,454,517 76	\$15,398,440 65		
Total county and local taxes.....	\$14,434,422 49	\$20,653,493 98	\$21,746,829 35	\$23,003,976 18	\$23,894,635 94	\$22,954,271 16	\$21,828,069 29		
Total taxes for all purposes.....	\$23,248,979 74	\$26,131,353 23	\$26,437,196 77	\$27,952,971 37	\$28,521,256 52	\$27,514,650 79	\$26,324,445 30		
Delinquencies and forfeitures.....	\$561,992 23	\$143,106 75	\$777,532 39	\$940,211 00	\$1,433,929 20	\$2,011,096 74	\$2,235,320 56		
Total taxes, inclnd'g delinquencies	\$23,810,971 97	\$26,474,459 98	\$27,614,729 16	\$27,893,182 37	\$29,965,185 72	\$29,525,747 53	\$28,559,765 86		

GRAND DUPLICATE OF OHIO FOR THE YEAR 1878.

Tabular statement exhibiting the number of acres of land, and the value the property; the total of taxable property; the amount of tax levied by the State Government, for Asylum Fund, and for the suppo

Counties.	Acres of land.	Value of lands.	Value of real estate in cities, towns, and villages.	Value of chattel property.
Adams.....	318,274	\$3,787,098	\$396,587	\$1,621,191
Allen.....	257,659	4,959,948	1,602,579	3,498,565
Ashland.....	265,776	8,131,085	1,100,073	3,799,642
Ashtabula.....	439,346	9,402,888	1,443,734	5,517,715
Athens.....	305,564	4,478,002	956,702	2,955,281
Auglaize.....	247,887	4,240,730	1,330,010	2,052,820
Belmont.....	337,182	11,696,483	2,760,934	6,532,326
Brown.....	306,493	7,078,653	1,124,388	2,918,361
Butler.....	291,049	17,215,714	6,423,034	9,407,653
Carroll.....	247,418	6,220,129	356,889	2,413,820
Champaign.....	267,283	11,281,860	2,721,800	6,590,056
Clarke.....	250,381	11,494,870	6,021,010	9,614,474
Clermont.....	282,973	9,855,850	1,137,130	3,566,730
Clinton.....	257,434	8,764,616	1,247,306	4,143,803
Columbiana.....	335,429	11,189,916	4,101,880	7,594,973
Coshocton.....	353,905	8,473,100	1,190,950	3,562,876
Crawford.....	251,515	7,790,740	2,440,870	5,247,330
Cuyahoga.....	255,104	10,869,091	51,162,882	23,644,800
Darke.....	377,430	10,937,000	1,902,280	5,658,180
Defiance.....	257,492	3,241,464	905,020	1,806,569
Delaware.....	284,553	9,359,157	2,282,974	4,885,145
Erie.....	157,616	4,590,891	2,967,817	3,854,815
Fairfield.....	313,683	10,951,430	1,825,720	5,520,320
Fayette.....	254,784	9,201,770	74,895	3,549,796
Franklin.....	311,487	16,719,290	19,690,650	11,242,189
Fulton.....	256,657	3,310,580	287,140	1,736,765
Gallia.....	286,709	3,975,064	1,197,957	2,448,717
Geauga.....	251,725	5,639,930	209,260	2,114,762
Greene.....	258,102	13,639,630	2,881,780	6,906,688
Guernsey.....	327,965	6,781,647	970,565	2,944,964
Hamilton.....	225,750	22,514,920	1,062,015,40	72,798,471
Hancock.....	334,441	8,339,166	1,053,034	2,985,734
Hardin.....	300,660	5,134,230	1,365,680	2,741,930
Harrison.....	256,014	8,104,060	796,430	4,173,830
Henry.....	201,727	2,747,100	585,540	1,254,534
Highland.....	346,144	9,304,823	1,758,834	4,449,551
Hocking.....	265,823	3,284,546	462,206	1,965,169
Holmes.....	264,826	5,221,570	449,760	2,718,504
Huron.....	306,097	9,421,101	2,592,220	5,772,554
Jackson.....	255,992	2,478,638	634,722	1,647,829
Jefferson.....	257,829	9,962,760	3,544,710	5,588,340
Knox.....	324,322	10,158,970	1,493,607	4,900,187
Lake.....	145,519	4,650,440	1,922,286	3,519,751
Lawrence.....	280,433	3,605,133	1,801,400	3,024,759
Licking.....	429,613	15,809,048	3,403,288	7,351,617
Logan.....	283,181	7,956,290	1,261,490	4,449,040
Lorain.....	357,241	8,869,541	2,692,335	6,118,721
Lucas.....	207,393	5,132,880	11,499,870	7,007,840
Madison.....	230,813	9,005,180	1,138,970	4,240,290

GRAND DUPLICATE OF OHIO FOR THE YEAR 1878.

several counties; the value of real property in cities and towns; the value of chattel Assembly for the payment of the principal and interest of the State debt, for the ex-Common Schools; and the total amount of State taxes.

State tax for 1878.

For State debt or Sinking Fund, 5-10 of a mill.	General Reve- nue Fund, 4-10 of a mill.	Asylum Fund, 1 mill.	State Common School Fund, 1 mill.	Total State tax, 2 and 9-10 mills.
\$2,902 43	\$2,321 95	\$5,404 88	\$5,404 87	\$16,834 13
5,230 48	4,184 41	10,461 09	10,461 09	30,337 07
6,555 40	5,244 32	13,110 80	13,110 80	34,021 32
9,185 17	6,545 18	16,370 33	16,370 33	47,474 01
3,698 26	2,953 59	7,386 54	7,386 54	21,449 93
3,811 75	3,049 43	7,623 57	7,623 57	22,104 32
10,497 86	8,398 29	20,995 74	20,995 74	60,886 63
5,510 71	4,408 55	11,021 40	11,021 40	31,962 06
15,870 51	12,536 35	31,340 90	31,344 79	92,192 55
4,494 92	3,595 92	8,949 84	8,949 84	26,070 52
10,296 75	8,237 39	20,593 52	20,594 52	59,721 16
13,565 23	10,452 18	27,130 45	27,130 45	78,678 31
7,279 85	5,823 88	14,559 71	14,559 74	42,223 15
7,077 73	5,662 17	14,155 40	14,155 40	41,050 70
14,443 39	9,154 72	22,846 80	22,846 80	66,371 71
6,613 39	5,390 77	13,226 92	13,226 92	34,858 00
7,734 52	6,187 58	15,408 94	15,418 94	44,759 96
44,327 57	35,462 06	88,655 16	88,655 16	257,099 95
9,249 21	7,499 41	18,498 42	18,498 42	53,645 46
2,976 52	2,341 22	5,953 06	5,953 06	17,723 86
4,253 94	6,403 15	16,507 88	16,507 88	47,672 85
5,706 76	4,565 38	11,413 62	11,413 62	33,099 28
9,148 94	7,319 04	18,297 67	18,297 67	53,661 42
6,744 98	5,309 18	13,497 96	13,497 96	39,144 08
25,330 48	20,264 45	50,661 12	50,661 13	146,917 18
2,667 20	2,133 75	5,334 38	5,334 38	15,469 71
3,400 86	3,080 70	7,601 70	7,601 70	22,064 96
4,011 96	3,209 54	8,023 96	8,023 96	23,269 46
11,246 03	8,948 82	22,472 07	22,472 07	63,168 99
5,338 59	4,270 85	10,677 18	10,677 18	30,963 80
105,787 46	84,629 97	211,574 93	211,574 93	613,767 29
6,149 91	4,951 93	12,379 83	12,379 83	35,901 50
4,620 92	3,696 73	9,241 84	9,241 84	26,901 33
6,540 16	5,232 13	13,090 32	13,090 32	37,932 93
2,293 57	1,834 91	4,547 16	4,547 16	13,302 82
7,656 65	6,125 32	15,313 24	15,313 24	44,405 53
2,455 98	2,251 74	5,711 97	5,711 97	16,504 70
4,194 91	3,355 91	8,390 33	8,390 33	24,331 48
8,492 79	7,114 33	17,745 74	17,745 74	51,578 68
2,340 54	1,904 43	4,761 09	4,761 09	13,907 14
9,547 92	7,633 31	19,095 81	19,095 81	55,377 53
8,277 34	6,621 90	16,547 79	16,554 79	49,008 82
5,046 34	4,037 07	10,092 70	10,092 70	29,265 81
4,215 54	3,372 40	8,431 20	8,431 20	24,450 34
13,241 97	10,625 48	26,563 91	26,563 95	77,035 34
6,533 41	5,468 72	13,666 48	13,666 82	39,633 77
8,540 29	7,072 24	17,680 65	17,680 59	51,273 72
11,969 89	9,675 91	23,939 79	23,939 79	69,425 36
7,192 23	5,753 77	14,384 44	14,384 44	41,714 86

GRAND DUPLICATE OF OHIO FOR THE YEAR 1878.

Counties.	Acres of land.	Value of lands.	Value of real estate in cities, towns, and villages.	Value of chattel property.
Mahoning	264,534	\$9,705,416	\$3,501,900	\$5,789,622
Marion	253,615	7,565,710	1,122,505	4,467,839
Medina	263,601	8,278,020	711,713	4,045,161
Meigs	283,600	4,056,396	2,323,250	2,431,300
Mercer	285,194	2,958,170	279,960	1,218,220
Miami	252,102	11,232,700	3,925,612	6,336,631
Monroe	228,350	3,799,692	325,231	1,496,175
Montgomery	227,098	17,592,770	12,973,460	14,012,860
Morgan	260,219	4,920,670	668,392	2,649,672
Morrow	253,920	8,005,032	706,222	3,702,907
Muskingum	419,221	12,521,430	5,052,530	8,059,420
Noble	253,976	4,512,246	176,922	1,552,725
Ottawa	163,110	2,599,012	643,544	2,311,014
Paulding	252,329	1,627,920	103,713	687,430
Perry	256,002	5,176,903	936,185	2,573,256
Pickaway	314,219	12,871,265	1,574,265	4,922,180
Pike	262,404	2,962,771	412,966	2,015,123
Portage	215,666	9,161,920	904,700	6,152,536
Preble	263,034	11,214,334	1,507,214	5,072,071
Potsdam	305,106	3,581,532	550,607	1,633,426
Richland	308,095	10,479,160	4,097,780	7,329,160
Ross	421,294	11,656,073	2,227,541	7,095,925
Sandusky	205,661	7,092,260	2,011,810	3,921,275
Scioto	351,720	3,961,308	2,905,167	3,285,616
Seneca	345,159	10,763,846	2,581,205	5,860,873
Shelby	254,693	5,614,920	995,654	3,165,590
Stark	351,084	16,600,090	6,790,650	2,460,260
Summit	260,266	11,447,794	3,900,616	7,071,849
Timbulk	399,229	11,197,129	2,225,510	6,322,784
Tuscarawas	356,740	10,052,454	2,060,894	4,749,575
Union	239,788	6,922,196	928,652	2,604,091
Van Wert	256,243	2,871,949	854,139	2,397,465
Vinton	257,907	2,226,393	223,297	1,352,928
Warren	252,264	12,394,241	1,932,641	7,053,434
Washington	393,411	6,462,578	2,412,079	3,673,775
Wayne	344,822	12,798,037	2,742,840	7,869,408
Williams	207,818	4,492,690	948,220	2,328,408
Wood	329,950	5,618,770	908,760	2,915,060
Wyandot	254,753	5,925,220	1,137,300	3,677,495
Totals	25,201,743	\$709,223,925	\$381,592,697	\$461,460,552

* Athens county college lands, valued at \$993,445, are claimed as exempt from all State taxes.

† Butler county college lands, valued at \$1,703,901, are claimed as exempt from taxation for State purposes, except for support of common schools.

TABLE STATEMENT—Continued.

Total value.	State Tax for 1878.				
	State Debt or Sinking Fund, 5-10 of a mill.	General Re- venue Fund, 4-10 of a mill.	Asylum Fund, 1 mill.	State Common School Fund, 1 mill.	Total State Tax, 8 and 9-10 mills.
\$18,997,198	\$9,496 61	\$7,598 89	\$18,997 20	\$18,997 20	\$55,091 90
13,156,047	6,578 00	5,982 38	13,156 12	13,156 02	38,162 48
13,034,794	6,517 39	5,213 92	13,034 80	13,034 80	37,800 90
8,110,955	4,405 49	3,524 36	8,810 96	8,810 95	25,561 76
4,456,370	2,228 14	1,782 55	4,456 37	4,456 37	12,923 47
21,543,943	10,771 97	8,617 58	21,543 92	21,543 94	62,477 43
5,621,092	2,810 52	2,242 40	5,621 13	5,621 13	16,301 18
44,579,090	22,289 54	17,531 64	44,597 09	44,579 09	129,279 36
8,134,734	4,049 37	3,255 49	8,138 73	8,138 73	23,602 32
12,414,161	6,207 08	4,965 67	12,414 16	12,414 16	36,001 07
26,633,370	12,816 69	10,253 35	26,633 37	26,633 37	74,336 78
6,241,893	3,120 96	2,496 72	6,241 89	6,241 89	18,101 48
5,553,570	2,776 79	2,221 43	5,553 57	5,553 57	16,105 36
2,419,043	1,209 53	967 61	2,419 05	2,419 05	7,016 24
8,846,953	4,343 50	3,474 74	8,686 96	8,686 96	25,192 16
19,367,710	9,683 87	7,747 09	19,367 71	19,367 71	56,166 39
5,390,860	2,695 45	2,156 36	5,390 83	5,390 83	15,633 46
16,209,216	8,104 61	6,453 69	16,209 21	16,209 21	47,806 72
17,793,819	8,696 80	7,117 45	17,793 61	17,793 61	51,601 47
5,815,571	2,907 74	2,328 20	5,815 56	5,815 56	16,885 06
21,906,100	10,953 05	8,762 44	21,906 10	21,906 10	63,527 60
21,679,539	10,839 77	8,671 81	21,679 54	21,679 54	62,870 66
13,025,345	6,512 68	5,210 14	13,025 31	13,025 31	37,773 44
10,752,081	5,376 05	4,300 81	10,752 09	10,752 09	31,181 04
18,605,944	9,302 86	7,442 34	18,605 92	18,605 95	53,957 16
9,776,164	4,888 11	3,910 46	9,776 16	9,776 16	28,360 89
32,851,000	16,425 50	13,140 40	32,851 00	32,851 00	95,267 90
22,420,359	11,210 19	8,968 17	22,420 34	22,420 34	65,019 04
19,751,453	9,875 69	7,900 55	19,751 49	19,751 49	57,279 22
16,892,921	8,446 46	6,757 17	16,892 92	16,892 92	48,989 47
10,520,949	5,260 43	4,306 37	10,520 86	10,520 86	30,510 58
6,223,953	3,119 02	2,489 61	6,224 01	6,224 02	18,049 66
3,922,678	1,961 35	1,569 09	3,922 68	3,922 66	11,375 77
21,410,316	10,705 16	8,564 11	21,410 32	21,410 32	62,099 91
12,748,732	6,374 37	5,099 49	12,748 73	12,748 73	36,971 32
23,406,363	11,703 61	9,362 90	23,407 18	23,307 18	67,880 67
7,769,978	3,884 97	3,108 97	7,769 96	7,769 93	22,533 83
9,642,630	4,821 38	3,657 05	9,642 63	9,642 63	27,963 63
10,741,075	5,370 54	4,296 43	10,741 07	10,741 07	31,149 11
\$1,552,577,504	\$774,939 51	\$619,972 43	\$1,549,880 10	\$1,551,563 97	\$4,496,376 01

LOCAL TAXES ON THE GRAND

Tabular Statement exhibiting the amount of Taxes assessed on the Grand Duplicate of road purposes; also the amount assessed by Towns, Township, and Sub district authority, Town, and Village purposes.

Counties.	Total amount of all other than State taxes.	Total amount of taxes for all purposes.	Delinquent taxes and forfeitures.	County tax.	Poor tax.	Bridge tax.
Adams	\$83,720 85	\$100,554 95	\$8,316 60	\$17,414 41	\$4,063 41	\$8,707 31
Allen	199,144 34	229,431 41	19,761 94	18,829 96	5,230 52	20,922 16
Ashland	128,657 04	164,878 36	4,953 84	19,010 66	7,210 93	16,388 49
Ashtabula	164,671 57	232,345 53	4,224 95	21,221 34	13,096 19	49,111 06
Athens	127,670 20	149,020 13	3,180 68	25,169 92	16,779 97	12,585 00
Anguila	111,922 76	134,031 05	5,419 25	26,682 55	.....	11,435 37
Belmont	194,365 13	255,252 76	19,413 61	25,194 86	16,736 58	10,497 66
Brown	146,792 84	178,754 90	32,046 12	27,563 53	8,265 99	27,853 23
Butler	325,237 82	417,830 37	40,989 60	36,349 24	16,522 44	16,522 44
Carroll	58,773 70	84,746 22	2,054 80	14,383 77	2,497 04	2,247 46
Champaign	177,139 40	236,860 58	8,156 16	18,534 18	4,118 71	12,356 12
Clarke	267,732 64	346,410 95	3,057 97	27,130 46	5,426 09	8,139 14
Clermont	155,148 13	197,371 25	14,635 36	18,927 62	8,735 83	11,047 77
Clinton	153,148 81	194,199 51	10,078 00	21,233 15	7,077 73	21,233 15
Columbiana	155,365 52	221,737 23	6,007 76	17,732 07	4,577 35	11,443 40
Coshocton	119,341 55	157,699 55	4,818 75	19,840 43	6,613 39	16,533 60
Crawford	177,796 49	222,756 47	4,332 76	23,203 35	15,468 94	15,468 94
Cuyahoga	2,342,982 67	2,600,052 62	179,750 69	93,087 91	.....	44,327 57
Darke	194,688 04	248,333 50	8,197 47	24,048 03	9,249 21	38,846 85
Defiance	132,040 54	149,304 70	10,490 95	16,072 27	2,976 54	8,929 56
Delaware	166,662 56	214,535 41	11,895 24	24,761 81	9,904 72	16,507 89
Erie	243,971 57	277,071 25	10,511 22	17,120 38	14,266 94	11,413 62
Fairfield	186,849 00	233,312 42	3,823 87	24,785 96	18,297 67	18,297 67
Fayette	166,185 51	205,329 59	12,595 20	20,246 94	16,672 45	17,497 96
Franklin	621,417 13	768,334 31	50,035 01	41,594 93	35,462 77	15,198 35
Fulton	91,645 51	107,015 22	4,002 51	13,335 98	7,405 03	13,646 01
Galena	97,110 51	119,215 74	3,900 06	19,004 35	4,561 05	11,302 61
Geauga	40,510 70	63,780 16	711 20	8,023 90	3,209 58	.....
Greene	198,333 06	261,062 65	7,812 41	29,213 70	15,730 43	22,472 07
Guernsey	118,012 67	148,375 81	7,937 12	19,219 51	6,406 26	19,677 17
Hamilton	4,613,390 50	5,427,567 79	194,856 33	211,574 93	34,830 78	89,707 77
Hancock	166,160 16	202,561 66	3,971 24	27,554 61	3,713 89	14,846 75
Hardin	164,039 62	190,430 80	32,472 96	23,104 60	9,241 84	9,241 84
Harrison	92,078 67	130,011 60	1,072 49	13,080 32	7,348 16	6,540 16
Henry	107,505 30	119,806 12	32,961 10	16,555 14	4,657 18	10,091 76
Highland	135,263 45	173,671 98	33,685 66	18,375 94	3,437 04	25,420 90
Hocking	65,512 07	80,076 77	2,033 63	14,279 77	3,998 28	8,567 87
Holmes	81,234 21	105,369 60	1,300 33	16,779 57	2,516 93	19,966 69
Huron	182,097 79	241,676 47	7,904 60	14,228 60	14,228 60	30,236 84
Jackson	67,779 37	81,686 51	4,431 16	16,663 81	9,522 17	2,380 54
Jefferson	161,292 06	216,663 91	1,083 83	24,824 85	9,47 32	1,728 73
Knox	143,065 64	181,072 46	6,291 33	21,521 24	8,277 34	16,554 79
Lake	80,585 99	103,804 80	1,347 02	12,415 57	5,046 35	7,669 53
Lawrence	140,405 30	169,886 64	23,495 99	15,176 41	5,008 87	10,117 63
Licking	264,933 77	341,963 11	3,746 68	29,220 34	13,282 07	24,907 52
Logan	147,737 19	187,430 90	10,005 18	27,533 64	2,733 37	27,333 64
Lorain	148,775 20	206,048 97	2,654 60	18,440 30	3,036 11	21,216 72
Lucas	949,448 79	1,018,874 17	961,935 68	47,873 58	8,478 93	29,924 74
Madison	148,426 89	190,341 77	4,635 34	21,576 72	14,384 44	14,384 44
Mahoning	206,466 12	264,558 02	11,204 32	24,686 37	18,997 18	20,296 80
Marion	113,823 33	151,375 75	5,128 17	19,624 79	1,315 57	13,156 02

DUPLICATE OF OHIO FOR THE YEAR 1878.

Ohio for 1878, by County authority, for County, Poor, Bridge, Building, Road, and Rail-
ity, for Township expenses, School and School-houses, and other special purposes, and for

Building tax.	Road tax.	All debts that the county is responsible for.	Township tax.	Township and school district taxes for school house, and all other purposes.	Other special taxes.	City, town, and village taxes.
.....	\$13,078 47	.....	\$4,609 24	\$27,944 33	\$3,077 57	\$2,825 86
\$5,230 52	54,350 08	.....	9,180 90	51,325 98	27,027 60	7,016 60
3,277 70	12,310 21	.....	10,571 17	42,405 21	2,545 49	13,123 18
8,185 12	2,053 57	\$3,840 17	6,450 36	52,506 87	5,230 19	18,116 70
12,585 00	14,979 41	.....	7,034 59	29,222 63	.....	9,309 64
.....	9,735 24	.....	8,798 50	36,006 73	5,437 03	14,227 34
20,995 74	14,166 00	.....	11,774 71	67,902 93	.....	27,046 45
.....	13,776 70	.....	10,309 65	35,026 12	13,256 65	10,750 97
3,304 46	19,152 00	16,522 43	16,967 72	94,549 27	8,731 55	96,616 27
2,217 46	4,494 92	1,962 06	5,860 23	10,002 04	11,732 77	3,147 95
8,237 37	17,904 32	.....	8,384 70	68,454 40	1,487 76	37,061 24
5,426 09	10,213 08	10,852 18	14,416 25	93,779 00	6,142 94	86,007 38
.....	19,104 00	.....	20,457 24	68,653 55	.....	9,622 12
.....	4,764 26	.....	8,083 79	49,356 03	28,809 40	12,787 30
.....	12,012 04	.....	13,583 33	68,419 03	3,768 87	27,769 43
.....	16,934 94	.....	12,162 51	34,215 69	.....	9,016 99
7,734 52	4,663 29	.....	13,909 45	51,227 16	11,920 57	33,880 27
106,386 12	8,568 01	17,731 02	25,513 41	361,407 92	594,532 30	1,091,434 41
.....	21,291 66	.....	17,729 89	65,916 78	211 87	17,411 75
8,929 56	38,961 41	.....	4,262 69	32,311 40	3,841 64	15,714 77
8,253 94	9,586 53	10,780 99	8,330 54	39,619 56	584 59	32,324 00
11,413 62	8,282 05	.....	12,805 57	62,502 22	8,255 55	97,911 92
9,148 94	9,148 94	.....	16,143 11	69,437 15	1,080 07	21,509 49
.....	6,748 98	20,246 94	8,971 51	57,146 18	6,228 05	15,928 50
10,132 20	5,127 50	25,330 18	14,327 13	182,525 67	25,330 51	263,347 59
14,936 05	9,361 57	.....	3,255 37	25,072 73	2,850 79	5,146 98
7,601 72	3,040 57	895 28	3,104 25	25,369 78	4,178 09	17,991 13
.....	970 17	.....	2,219 85	23,462 23	2,218 56	1,406 35
.....	15,548 79	.....	16,355 68	61,958 56	1,949 34	35,104 49
5,334 50	12,032 65	.....	7,854 78	49,282 40	133 65	7,067 40
12,694 49	.....	157,634 90	23,856 21	727,713 92	29,737 61	1,526,038 49
9,284 82	18,562 79	.....	7,967 00	46,883 88	23,583 40	14,894 02
.....	45,457 70	.....	13,905 81	41,202 27	1,732 00	20,153 54
2,616 06	15,106 11	.....	9,588 89	30,012 92	1,808 03	5,997 99
.....	9,164 75	6,880 73	6,111 01	26,924 38	18,767 58	8,050 77
.....	808 14	.....	6,602 59	54,872 26	5,124 20	21,682 38
1,142 36	543 86	.....	5,214 79	23,206 31	.....	6,524 83
838 95	8,739 68	.....	5,238 06	27,634 41	5,794 91	2,814 64
.....	24,838 56	.....	6,644 29	53,705 03	6,506 30	31,706 51
2,380 54	.....	.....	8,059 83	20,374 94	1,804 07	6,889 67
.....	10,323 93	.....	8,605 90	54,000 74	23,562 51	24,617 78
.....	14,022 33	8,277 34	8,660 56	43,417 30	2,377 63	19,935 01
2,018 55	5,489 34	.....	3,467 82	31,411 00	.....	12,957 03
1,686 25	20,215 07	5,058 57	4,202 03	42,124 09	16,246 41	25,439 67
26,563 94	22,673 22	3,077 51	16,178 28	71,704 82	14,314 72	54,007 35
.....	10,454 09	.....	7,415 01	46,444 64	10,186 59	15,906 21
7,072 23	9,315 73	.....	7,616 56	67,505 11	5,797 29	17,874 20
21,545 51	9,313 72	7,181 94	7,435 27	140,720 21	312,782 16	304,306 41
.....	8,982 49	13,043 23	8,372 03	46,279 55	2,085 75	14,908 21
.....	14,307 12	.....	13,951 64	54,892 24	4,004 01	56,720 64
.....	11,972 95	.....	9,469 36	42,379 21	9,617 34	14,788 09

LOCAL TAXES ON THE GRAND

Counties.	Total amount of all other than State taxes.	Total amount of taxes for all purposes.	Delinquent taxes and forfeitures.	County tax.	Poor tax.	Bridge tax.
Medina	\$80,245 52	\$118,046 42	\$513 73	\$15,641 76	\$3,910 46	\$6,517 38
Meigs	119,791 96	145,443 72	9,008 25	15,859 72	5,286 56	8,810 86
Mercer	90,594 93	103,518 40	5,181 67	15,597 29	3,787 91	13,369 11
Miami	269,014 69	331,492 12	11,964 40	21,543 94	10,771 97	30,161 62
Monroe	67,037 39	83,338 57	4,657 08	8,433 44	3,372 57	5,621 14
Montgomery	610,179 23	739,458 59	16,534 05	49,036 99	26,747 45	28,166 63
Morgan	91,780 92	115,323 24	290 81	14,649 72	11,394 23	8,138 74
Morrow	86,540 28	122,541 35	2,375 04	12,414 16	2,482 83	12,414 16
Muskingum	302,113 34	376,450 12	4,212 61	28,196 71	25,633 37	25,633 37
Noble	63,114 04	81,215 50	3,031 51	12,483 78	3,120 96	3,120 96
Ottawa	97,856 00	113,961 36	7,648 38	16,660 70	.....	16,660 69
Paulding	75,764 62	82,779 76	59,314 65	19,836 33	3,870 48	10,885 78
Perry	100,463 64	125,656 00	3,021 09	14,767 72	8,646 96	8,686 96
Pickaway	180,185 58	236,351 96	4,991 87	24,178 02	15,494 19	17,430 92
Pike	64,505 87	80,139 33	3,940 45	13,477 14	2,156 35	2,605 45
Portage	122,215 16	169,221 88	1,573 06	16,209 22	4,862 77	11,346 45
Preble	139,649 15	191,250 62	5,614 93	14,235 03	7,117 46	17,793 61
Putnam	122,114 27	138,979 33	14,183 72	18,028 25	3,522 05	14,539 05
Richland	201,669 38	265,197 07	5,772 43	21,906 10	10,963 05	.....
Ross	213,550 87	276,421 53	7,416 36	21,679 54	10,839 77	17,343 63
Randusky	164,319 50	206,092 94	6,976 04	27,353 18	7,815 19	19,537 92
Scioto	210,416 94	241,597 98	28,653 03	16,128 13	6,601 63	11,827 29
Seneca	224,343 53	278,340 69	8,185 27	35,351 25	7,442 36	22,327 09
Shelby	131,410 53	159,761 41	7,222 62	17,597 09	9,776 16	14,664 25
Stark	329,610 60	421,878 50	16,187 15	45,991 40	13,140 40	26,280 80
Summit	254,913 17	319,932 21	4,952 75	40,356 64	11,210 19	20,176 33
Trumbull	175,472 29	232,759 51	4,185 91	25,676 93	9,875 70	19,751 47
Tuscarawas	194,651 40	243,641 87	5,128 02	28,717 97	10,135 75	37,164 43
Union	189,713 56	220,220 03	29,317 26	14,937 85	4,208 37	15,781 31
Van Wert	115,590 05	133,639 71	26,071 27	15,560 05	3,734 42	4,979 23
Vinton	56,564 82	67,940 59	6,955 11	14,121 65	5,864 00	1,961 33
Warren	167,111 12	229,201 03	5,137 46	21,410 32	8,564 11	14,947 22
Washington	171,343 94	208,315 26	5,062 55	25,497 46	19,123 09	6,374 37
Wayne	209,218 69	277,099 56	4,097 84	30,429 34	14,044 29	25,747 89
Williams	87,646 20	110,140 03	1,671 12	15,539 94	.....	11,654 96
Wood	169,097 62	197,661 45	26,916 42	23,142 31	9,642 63	24,196 57
Wyandot	123,916 23	155,065 34	2,414 99	19,333 94	7,518 75	16,111 61
Totals	21,828,069 29	26,324,445 30	2,235,320 56	2,141,177 76	786,293 24	1446,812 22

DUPLICATE OF OHIO FOR THE YEAR 1878—Continued.

Building tax.	Road tax.	All debts that the county is responsible for.	Township tax.	Township and sub-district school, school-house, and all taxes for school purposes.	Other special taxes.	City, town, and village taxes.
.....	\$3,715 20	.....	\$4,863 11	\$35,209 16	\$6,278 89	\$4,109 56
\$3,524 38	17,200 68	.....	10,461 79	34,877 10	.....	23,870 56
8,912 74	8,225 82	.....	9,815 82	25,697 92	2,933 73	2,254 59
.....	28,447 67	.....	13,352 73	82,072 76	19,349 55	63,274 55
5,621 14	9,001 84	.....	5,737 58	27,588 88	.....	1,600 80
44,579 09	24,591 14	\$8,915 82	16,520 39	169,204 42	32,198 16	210,215 09
813 88	14,387 29	.....	2,647 10	30,940 41	5,626 71	3,182 84
.....	11,330 17	.....	5,075 51	32,155 94	2,845 60	7,821 87
43,576 73	.....	.....	9,907 57	71,570 56	7,076 63	90,518 36
3,120 96	8,441 94	.....	4,932 99	26,575 37	700 22	616 86
5,553 57	7,112 14	2,776 81	2,258 60	32,363 53	8,294 70	6,174 96
1,209 52	7,257 20	.....	4,476 52	17,650 69	9,496 42	1,061 58
.....	8,686 98	.....	7,370 78	37,520 80	4,081 52	10,662 12
.....	18,502 89	.....	12,548 99	61,065 68	4,040 13	25,934 76
.....	539 10	.....	5,990 36	28,454 23	6,121 65	5,071 59
.....	10,174 83	.....	6,908 18	51,514 89	3,647 89	18,250 93
.....	8,896 81	.....	4,605 29	50,921 30	24,822 85	11,256 89
2,907 74	16,494 44	.....	4,758 42	30,475 10	26,089 60	5,299 62
10,953 05	12,438 83	.....	10,372 58	71,420 94	2,976 53	60,648 00
10,839 77	.....	28,183 40	11,344 08	69,253 76	12,071 58	31,955 34
5,210 14	10,001 56	5,210 14	10,336 69	51,020 46	5,124 64	26,709 54
.....	35,481 83	10,752 10	5,722 90	56,312 28	8,492 10	56,606 69
5,581 78	12,699 35	7,442 34	9,145 77	67,646 94	11,023 42	45,723 23
.....	24,440 41	.....	15,472 53	32,203 12	2,198 97	15,048 99
.....	15,481 80	13,140 40	17,777 29	101,214 15	6,551 22	90,003 14
.....	14,986 30	.....	6,750 57	29,779 63	2,766 88	64,844 63
.....	2,874 50	5,925 41	9,813 10	65,522 69	7,554 45	24,474 04
.....	12,943 58	.....	17,092 58	68,426 11	.....	20,170 98
7,364 78	10,520 86	.....	6,691 57	44,367 51	70,859 50	10,981 81
18,672 04	13,475 99	.....	6,339 36	33,578 53	5,450 36	13,500 39
1,961 32	8,544 32	.....	3,607 53	17,221 17	1,290 11	13,973 39
.....	24,052 13	.....	13,803 36	54,848 93	6,423 09	23,021 96
.....	9,940 07	12,748 73	9,165 11	52,715 48	.....	35,779 63
5,851 86	2,048 35	11,703 61	12,655 09	65,994 19	10,484 51	30,259 56
.....	.....	.....	18,615 71	31,474 32	1,273 34	9,087 89
2,892 80	16,797 26	.....	17,736 64	49,845 73	6,943 70	18,090 18
.....	9,248 88	.....	10,582 59	45,963 58	2,058 36	13,098 58
536,356 01	1,091,669 60	427,314 81	555,550 60	5,546,656 52	1,604,606 53	7,391,627 34

**MERCHANTS' AND MANUFACTURERS' STOCK, AND MONTHLY AVERAGE VALUE OF MONEYS
AND CREDITS CONVERTED INTO NON-TAXABLE BONDS.**

Counties.	Merchants' stock.	Manufacturers' stock.	Monthly average value of moneys, credits, or other personal property, con- verted into non-taxable bonds.
Adams.....	\$119,420	\$29,352	\$13,450
Allen.....	227,967	79,812	12, '87
Ashland.....	188,941	52,327	900
Ashtabula.....	288,968	87,639	3,683
Athens.....	192,351	41,972	13,900
Auglaize.....	179,561	55,206	2,427
Belmont.....	417,960	184,871	11,570
Brown.....	232,464	55,405	5,850
Butler.....	443,316	248,201	11,683
Carroll.....	77,434	14,806	5,033
Champaign.....	358,719	146,395	22,165
Clarke.....	519,650	382,952	41,316
Clermont.....	224,182	61,601	7,455
Clinton.....	272,074	57,176	3,520
Columbiana.....	403,868	189,302	20,815
Coshocton.....	177,361	57,029	4,625
Crawford.....	257,725	93,186	10,600
Cuyahoga.....	2,859,930	959,060	121,198
Darke.....	296,185	55,775	6,025
Defiance.....	117,005	65,039	.....
Delaware.....	327,741	64,282	31,189
Erie.....	322,911	161,087	16,782
Fairfield.....	301,094	61,124	1,645
Fayette.....	169,069	46,095	15
Franklin.....	1,667,381	638,179	89,013
Fulton.....	65,946	12,300	3,345
Gallia.....	253,550	72,031	9,820
Geauga.....	78,422	26,614	9,200
Greene.....	450,750	119,035	25,837
Guernsey.....	190,247	23,745	975
Hamilton.....	13,812,604	6,085,204	523,804
Hancock.....	209,011	45,952	11,085
Hardin.....	165,482	45,570	8,475
Harrison.....	165,764	23,196	3,817
Henry.....	61,128	29,485	375
Highland.....	305,010	57,627	145,352
Hocking.....	80,640	45,304	16,770
Holmes.....	84,866	18,797	2,460
Huron.....	280,026	78,323	10,500
Jackson.....	104,578	106,329	9,226
Jefferson.....	353,420	70,392	23,650
Knox.....	280,770	87,954	.....
Lake.....	159,011	44,125	204
Lawrence.....	206,605	265,102	8,849
Licking.....	511,043	92,931	9,905
Logan.....	306,963	66,634	244
Lorain.....	252,549	58,642	4,672
Lucas.....	978,570	220,678	19,187
Madison.....	211,204	30,530	5,435
Mahoning.....	290,998	115,115	98,860
Marion.....	223,259	60,391	24,554

MERCHANTS' AND MANUFACTURERS' STOCK, ETC.—Continued.

Counties.	Merchants' stock.	Manufacturers' stock.	Monthly average value of money, credits, or other personal property, converted into non-taxable bonds.
Medina	\$191,916	\$47,760	\$4,932
Meigs	276,394	87,275	6,113
Mercer	82,900	37,483	4,930
Miami	395,492	161,229	11,237
Monroe	90,000	47,712	750
Montgomery	1,375,164	724,178	142,505
Morgan	174,143	34,424	235
Morrow	164,707	31,005	4,160
Muskingum	601,278	275,109	37,325
Noble	81,634	17,448	2,540
Ottawa	79,855	61,734	9,400
Paulding	26,552	57,556	3,982
Perry	151,571	49,093	4,769
Pickaway	315,021	96,658	29,467
Pike	117,773	65,786	14,479
Portage	253,562	65,160	20,025
Preble	252,620	70,429	12,968
Putnam	107,637	14,125	7,196
Richland	558,398	151,793	16,102
Ross	611,439	176,419	11,823
Sandusky	216,733	76,644	16,185
Scioto	510,775	150,749	52,643
Seneca	351,278	122,196	4,070
Shelby	194,325	41,017	16,515
Stark	632,740	411,924	26,167
Summit	541,421	400,431	26,079
Trumbull	317,141	148,214	33,340
Tuscarawas	291,041	54,669	6,703
Union	191,923	39,533	11,800
Van Wert	110,262	42,250	1,885
Vinton	81,867	64,498	1,727
Warren	342,343	94,040	37,869
Washington	340,253	99,209	22,079
Wayne	441,197	106,019	2,200
Williams	132, 19	25,912	450
Wood	138,008	52,406	46,568
Wyandot	194,751	34,180	22,010
Totals	\$41,923,120	\$16,057,481	\$4,110,849

MONEYS, CREDITS, BONDS, AND STOCKS.

Counties.	Value of moneys.	Value of credits, book accounts, etc.
Adams	\$215,638	444,653
Allen	210,722	544,383
Ashland	243,409	1,222,727
Ashtabula	183,377	892,356
Athens	143,176	666,061
Auglaize	233,803	302,349
Belmont	402,872	1,933,221
Brown	166,881	743,948
Butler	860,911	2,797,790
Carroll	331,424	740,449
Champaign	336,803	1,849,393
Clarke	845,540	2,527,253
Clermont	273,857	891,091
Clinton	203,672	1,173,650
Columbiana	398,007	1,610,077
Coshocton	329,410	969,401
Crawford	251,375	1,254,192
Cuyahoga	1,433,535	2,508,090
Darke	202,781	1,354,229
Defiance	51,716	220,393
Delaware	262,042	1,204,566
Erie	145,588	474,489
Fairfield	367,269	1,707,252
Fayette	225,237	884,965
Franklin	1,056,113	2,583,247
Fulton	35,308	173,078
Gallia	255,674	675,144
Geauga	147,063	696,144
Greene	477,858	2,268,218
Guernsey	183,227	762,239
Hamilton	2,818,234	5,804,211
Hancock	124,887	985,181
Hardin	159,358	254,751
Harrison	271,184	1,563,497
Henry	33,670	91,300
Highland	332,917	1,391,632
Hocking	115,066	397,689
Holmes	249,314	828,223
Huron	169,785	1,531,011
Jackson	129,451	266,726
Jefferson	404,329	1,102,779
Knox	220,408	1,444,018
Lake	248,746	778,131
Lawrence	373,076	518,369
Licking	250,314	2,223,889
Logan	274,889	1,209,839
Lorain	177,328	1,267,068
Lucas	222,350	354,841

MONEYS, CREDITS, BONDS, AND STOCKS—Continued.

Counties.	Value of moneys.	Value of credits, book accounts, etc.	Bonds or stocks of any State, or of any company or corporation not required to list its property for taxation in Ohio.
Madison	\$228,557	\$1,207,634	\$12,322
Mahoning	494,692	1,575,567	59,790
Marion	261,823	947,517	9,285
Medina	122,524	1,503,163	8,900
Meigs	164,821	617,793	27,048
Mercer	149,356	226,065	.....
Miami	352,594	1,774,969	86,405
Monroe	273,432	341,587	2,486
Montgomery	1,567,520	3,651,711	314,451
Morgan	102,004	1,032,623	3,637
Morrow	221,168	1,069,065	4,100
Maskingum	556,756	2,504,293	105,248
Noble	146,107	396,764	1,300
Ottawa	132,362	78,369	2,000
Paulding	18,933	31,474	11,792
Perry	110,554	784,128	4,589
Pickaway	373,863	1,465,176	18,650
Pike	230,269	395,993	15,987
Portage	319,278	1,742,348	32,186
Preble	219,665	1,717,683	19,786
Putnam	109,955	356,865	250
Richland	328,689	1,839,187	59,090
Ross	728,473	1,865,344	24,563
Sandusky	219,729	858,063	.....
Scioto	427,679	405,387	28,561
Seneca	395,278	1,445,909	17,150
Shelby	246,277	464,697	28,525
Stark	643,010	2,869,389	53,794
Summit	343,217	2,219,698	37,985
Trumbull	334,703	1,392,054	101,179
Tuscarawas	114,860	1,411,576	19,140
Union	145,875	709,042	22,977
Van Wert	131,297	217,033	4,050
Vinton	96,273	257,914	.....
Warren	398,193	2,555,229	177,254
Washington	211,830	1,148,321	51,143
Wayne	148,452	2,911,630	36,004
Williams	86,534	392,155	.....
Wood	104,165	224,529	5,250
Wyandot	175,174	632,890	10,259
Totals	\$28,676,877	\$105,535,365	\$5,413,477

MONEY, CREDITS, BONDS, AND STOCK.

Counties.	Value of money.	Value of credits, book accounts, etc.	Bonds or stocks of any State, or of any company or corporation not required to list its property for taxation in Ohio.
Adams	\$215,638	444,653	\$19,892
Allen	210,722	544,335	2,200
Ashland	243,409	1,222,727	3,400
Ashtabula	183,377	892,356	13,059
Athens	143,176	665,061	37,654
Auglaize	233,803	302,349	3,110
Belmont	402,872	1,953,221	63,398
Brown	186,881	743,948	25,280
Butler	860,911	2,797,790	76,940
Carroll	331,424	740,449	24,500
Champaign	336,803	1,849,393	67,130
Clarke	845,540	2,527,253	179,669
Clermont	273,857	891,091	26,385
Clinton	203,672	1,173,650	8,805
Columbiana	398,007	1,610,077	13,247
Coshocton	329,410	989,401	33,890
Crawford	251,375	1,254,192	18,593
Cuyahoga	1,433,535	2,508,090	726,510
Darke	209,781	1,354,229	7,711
Defiance	51,716	220,393	-----
Delaware	262,042	1,204,566	17,365
Erie	145,588	474,489	16,194
Fairfield	367,269	1,707,252	7,211
Fayette	225,237	884,965	5,943
Franklin	1,056,113	2,593,247	452,699
Fulton	36,306	173,078	-----
Gallia	255,874	675,144	12,535
Geauga	147,063	696,594	4,760
Greene	477,858	2,268,218	73,996
Guernsey	183,227	762,239	12,672
Hamilton	2,818,234	5,804,211	1,588,530
Hancock	124,887	985,181	18,150
Hardin	159,358	254,753	9,585
Harrison	271,184	1,563,427	7,470
Henry	33,670	91,300	650
Highland	332,917	1,391,632	55,470
Hocking	115,056	397,599	7,230
Holmes	249,314	828,223	3,135
Huron	169,795	1,531,011	34,300
Jackson	189,451	266,726	771
Jefferson	404,329	1,102,779	86,365
Knox	230,496	1,444,018	-----
Lake	248,746	778,131	35,229
Lawrence	373,076	518,368	94,405
Licking	266,334	2,223,889	21,927
Logan	274,889	1,209,839	7,880
Lorain	137,368	1,367,068	9,850
Lucas	259,360	354,841	34,550

INTEREST OF IRREDUCIBLE STATE DEBT—Continued.

Counties.	Section 16 School Fund.	Section 29 Ministerial Fund.	Virginia Military School Fund.	United States Military School Fund.	Western Reserve School Fund.	Total.
Meigs	\$772 96	\$405 09				\$1,178 05
Mercer	4,073 18					4,073 18
Miami	3,559 74					3,559 74
Monroe	2,599 05					2,599 05
Montgomery ..	8,166 44					8,166 44
Morgan	2,196 98	32 22				2,229 20
Morrow	1,812 76			\$220 29		2,033 05
Muskingum	2,915 73			802 76		3,718 51
Noble	986 84			5 05		991 89
Ottawa	1,919 68				\$99 46	2,019 14
Paulding	1,466 26					1,466 26
Perry	1,573 80					1,573 80
Pickaway	2,746 02		\$433 03			3,179 05
Pike	209 44		406 12			615 56
Portage					747 33	747 33
Preble	4,516 61					4,516 61
Putnam	2,804 07					2,804 07
Richland	2,333 73					2,333 73
Ross	1,078 09		999 00			2,077 09
Sandusky	1,381 39					1,381 39
Scioto	1,519 06		277 37			1,796 43
Seneca	3,906 56					3,906 56
Shelby	3,980 15					3,980 15
Stark	4,573 06					4,573 06
Summit	589 70				1,100 13	1,688 83
Trumbull					1,330 28	1,330 28
Tuscarawas ..	306 34			1,169 72		1,476 10
Union			709 65			709 65
Van Wert	2,439 35					2,439 35
Vinton	1,145 64	265 45				1,411 09
Warren	3,205 03	1,131 55	343 00			4,679 58
Washington ..	2,870 12	585 86				3,455 98
Wayne	4,957 68					4,957 68
Williams	2,535 44					2,535 44
Wood	4,334 28					4,334 28
Wyandot	4,017 65					4,017 65
Ohio University Fund						
O. A. and M. C. Fund (Ohio State University)						27,484 45
Totals,	\$180,517 55	\$6 820 70	\$12,050 31	\$7,216 33	\$15,445 75	\$240,530 09

Table showing the amount of Interest on the several funds constituting the State Debt, for the year ending December 31, 1878, upon such principal as accrued by payment into the State Treasury, or otherwise, up to November interest being due and payable to County Treasurers after January 1, 1879 interest on the Ohio State University Fund, which is an estimated amount through the calendar year 1879, as it accrues.

Counties.	Section 16 School Fund.	Section 20 Ministerial Fund.	Virginia Military School Fund.	United States Military School Fund.	Western Reserve School Fund.
Adams			\$809 06		
Allen	\$2,391 53				
Ashland	1,537 00				\$58 68
Ashtabula					998 49
Athens	724 18	\$431 46			
Anglaise	4,401 88		5 28		
Belmont	6,432 77				
Brown			1,116 04		
Butler	7,102 22	1,323 68			
Carroll	2,261 73				
Champaign	1,077 37		248 94		
Clarke	1,316 64		95 22		
Clermont			1,167 47		
Clinton			810 24		
Columbiana	4,533 78				
Coshocton				\$833 06	
Crawford	1,672 62				
Cuyahoga					5,451 17
Darke	5,141 53				
Defiance	1,892 28				
Delaware			90 90	407 18	
Erie					1,217 59
Fairfield	3,974 87				
Fayette			620 07		
Franklin	449 18		485 36	417 53	
Fulton	1,782 77				
Gallia	1,143 64	370 48			
Geauga					354 87
Greene	1,291 49				
Guernsey	372 05			646 29	
Hamilton	11,531 15	2,162 58	147 63		
Hancock	2,058 09				
Hardin	1,960 72		255 33		
Harrison	4,391 55				
Henry	3,258 31				
Highland			1,002 08		
Hocking	1,333 71	89 52			
Holmes	926 04			476 72	
Huron					968 63
Jackson	952 61				
Jefferson	8,401 06				
Knox	361 11			751 16	
Lake					493 97
Lawrence	1,119 38	45 68			
Licking	193 59			1,126 65	
Logan	1,341 76		422 55		
Lorain					1,031 44

TABLE SHOWING AMOUNT OF INTEREST, ETC.—Continued.

County.	Section 16 School Fund.	Section 20 Ministerial Fund.	Virginia Military School Fund.	United States Military School Fund.	Western Reserve School Fund.	Total.
Lucas	\$2,509 03					\$2,509 03
Madison			\$680 95			680 95
Mahoning	2,430 08				\$637 74	3,067 82
Marion	783 68		56 23	\$56 65		996 56
Medina					619 13	619 13
Meigs	772 96	\$407 31				1,180 27
Mercer	4,110 22					4,110 22
Miami	3,560 03					3,560 03
Monroe	2,500 06					2,500 06
Montgomery	2,500 36					2,500 36
Morgan	2,352 42	64 36				2,416 78
Morrow	1,944 51			216 13		2,160 64
Muskingum	3,027 50			841 86		3,869 36
Noble	998 04			4 84		1,002 88
Ottawa	1,966 54				94 17	2,060 71
Paulding	1,421 54					1,421 54
Perry	1,575 20					1,575 20
Pickaway	2,746 02		445 39			3,191 40
Pike	212 66					212 66
Portage					751 31	751 31
Preble	4,516 61					4,516 61
Putnam	2,813 64					2,813 64
Richland	2,333 73					2,333 73
Ross	1,078 00		991 50			2,069 50
Sandusky	1,921 39					1,921 39
Scioto	1,630 37		223 04			1,853 41
Seneca	4,007 04					4,007 04
Shelby	4,021 80					4,021 80
Stark	4,573 06					4,573 06
Summit	588 70				1,115 52	1,704 22
Trembly					1,353 04	1,353 04
Tuscarawas	306 36			1,137 95		1,444 31
Union			692 00			692 00
Van Wert	2,500 49					2,500 49
Vinton	1,169 55	271 94				1,441 49
Warren	3,305 03	1,131 55	325 75			4,762 33
Washington	2,576 59	525 86				3,102 45
Wayne	4,957 08					4,957 08
Williams	2,542 10					2,542 10
Wood	4,352 06					4,352 06
Wyandot	4,044 89					4,044 89
Ohio Univ. Fund.						426 12
O. & Univ. Fund.						46,617 81
Totals	\$122,131 29	\$6,884 42	\$11,771 54	\$7,216 33	\$15,445 75	\$162,553 33

Table showing the enumeration of scholars between the ages of six and twenty-c
distribution of Interest to the several Counties in the Virginia Military, Unit
Military, and Connecticut Western Reserve School Districts, accruing in the y
and payable after January 1, 1879.

Counties.	Virginia Military District.		United States Military District.		Connecticut Reserve D	
	Number of scholars.	Interest to be distributed.	Number of scholars.	Interest to be distributed.	Number of scholars.	
Adams.....	8,258	\$809 06	.....	.....	.....	..
Ashland .....	.....	.....	.....	.....	610	..
Ashtabula .....	.....	.....	.....	.....	10,369	..
Anglaize.....	54	5 23	.....	.....	.....	..
Brown.....	11,391	1,116 04	.....	.....	.....	..
Champaign	2,541	248 94	.....	.....	.....	..
Clarke.....	972	95 22	.....	.....	.....	..
Clermont	11,916	1,167 47	.....	.....	.....	..
Clinton	8,270	810 24	.....	.....	.....	..
Coshocton .....	.....	.....	8,936	\$833 06	.....	..
Cuyahoga.....	.....	.....	.....	.....	55,655	..
Delaware.....	928	90 90	7,586	707 16	.....	..
Erne .....	.....	.....	.....	.....	12,657	..
Fayette.....	6,329	620 07	.....	.....	.....	..
Franklin	4,954	485 36	4,479	417 53	.....	..
Geauga .....	.....	.....	.....	.....	3,689	..
Greene	6,580	644 66	.....	.....	.....	..
Guernsey .....	.....	.....	6,933	646 29	.....	..
Hamilton	1,507	147 63	.....	.....	.....	..
Hardin.	2,606	255 33	.....	.....	.....	..
Highland	10,228	1,002 98	.....	.....	.....	..
Holmes .....	.....	.....	5,114	476 72	.....	..
Huron .....	.....	.....	.....	.....	10,069	..
Knox.....	.....	.....	8,058	751 16	.....	..
Lake .....	.....	.....	.....	.....	5,135	..
Licking .....	.....	.....	12,086	1,126 65	.....	..
Logan	4,331	422 55	.....	.....	.....	..
Lorain.....	.....	.....	.....	.....	10,722	..
Madison	6,338	620 95	.....	.....	.....	..
Mahoning .....	.....	.....	.....	.....	9,748	..
Marion	911	89 23	597	55 65	.....	..
Medina .....	.....	.....	.....	.....	6,436	..
Morrow.....	.....	.....	2,340	218 13	.....	..
Muskingum .....	.....	.....	9,031	841 86	.....	..
Noble.....	.....	.....	52	4 84	.....	..
Ottawa .....	.....	.....	.....	.....	979	..
Pickaway.....	4,546	445 38	.....	.....	.....	..
Pike.....	4,112	402 86	.....	.....	.....	..
Portage .....	.....	.....	.....	.....	7,810	..
Ross.....	10,120	991 50	.....	.....	.....	..
Scioto	2,889	253 04	.....	.....	.....	..
Summit .....	.....	.....	.....	.....	11,596	..
Trumbull .....	.....	.....	.....	.....	14,065	..
Tuscarawas .....	.....	.....	12,200	1,137 28	.....	..
Union	7,063	692 00	.....	.....	.....	..
Warren.....	3,325	325 75	.....	.....	.....	..
Totals	120,151	\$11,771 54	77,412	\$7,216 33	160,550	\$11

The amount of principal upon which the preceding table of interest is computed, is as follows: Virginia Military Fund, \$122,001.89; United States Military Fund, \$120,272.12; Connecticut Western Reserve Fund, \$257,429.21; Total, \$559,703.22.

VALUATIONS AND TAXATION IN THE CITIES OF OHIO.

Tabular statement of the valuations, rates of taxation, and tax levies for the several cities, and eleven of the other principal towns of the State of Ohio, for the year 1874, together with the rates, aggregate valuations, and total levies for the previous year, to which is also added the reported indebtedness of the same.

Cities and towns.	Counties.	Valuation and taxation for 1878.					Valuation and taxation for 1877.			
		Total valuation of prop-erty in 1878.	Total rate of taxation, in-cluding 2 y. 10 mills for State purposes.	Amount of State taxes.	Amount of local taxes.	Total taxes for all pur-poses.	Indebtedness September 1, 1878, including debts of separate school districts.	Total valuation of prop-erty in 1877.	Total rate of taxation, in-cluding 2 y. 10 mills for State purposes.	Total taxes for all pur-poses.
			Mills.						Mills.	
Akron city	Summit	6,565,337	19.6	\$19,909 46	\$112,514 37	\$132,423 83	\$57,762 00	\$4,775 747	20.7	\$140,257 96
Bellefontaine	Logan	1,561,470	23.5	4,629 14	31,384 75	35,912 89	54,061 75	1,567 520	27.8	44,127 49
Canton city	Marion	5,059,870	21.7	14,671 86	16,114 27	106,786 15	216,373 87	4,931 340	23.5	115,886 25
Chillicothe city	Ross	4,741,305	19.	13,749 27	76,331 03	90,080 30	5,856 83	4,796 254	22.	103,537 16
Cincinnati city	Hamilton	172,874,064	24.54	501,314 79	4,432,491 11	4,933,805 90	22,643,049 75	179,430 142	29.1	5,221,417 13
Circleville city	Pickaway	3,073,476	20.	8,911 09	52,576 41	61,487 50	3,600 00	3,170 091	20.	63,413 84
Cleveland city	Cuyahoga	20,130,629	26.5	203,404 29	1,585,164 50	1,788,568 79	3,559,738 37	71,296 122	28.6	2,039,069 04
Columbus city	Franklin	87,100,291	20.	78,871 94	465,107 92	543,979 86	1,459,449 88	27,133 175	21.	509,796 69
Dayton city	Montgomery	18,073,020	22.1	55,021 76	364,281 99	419,303 74	1,127,817 13	19,624 250	23.3	457,245 02
Delaware city	Delaware	3,704,219	19.75	10,163 07	65,540 69	65,703 36	16,096 66	3,547 704	19.8	70,241 54
East Cleveland	Cuyahoga	1,496,040	14.50	4,248 74	7,383 25	11,632 99	.....	1,409 505	14.75	12,233 16
Ellettsville	Lucas	1,910,479	16.	5,540 27	25,086 75	30,627 02	.....	2,016 135	17.	24,274 29
Findlay	Seneca	1,228,874	21.	5,794 02	36,843 40	42,637 42	42,000 00	2,000 864	23.1	48,860 76
Gallipolis city	Gallia	1,000,101	22.2	5,794 02	36,843 40	42,637 42	124,276 29	2,018 216	23.2	46,821 04
Hamilton city	Butler	4,178,004	23.1	17,913 19	118,630 73	136,543 91	108,042 64	6,188 214	21.5-20	131,499 54
Ironton city	Lawrence	2,789,253	24.5	8,006 93	69,379 80	67,476 72	249,694 13	3,046 199	22.4	62,234 90

Table showing the enumeration of scholars between the ages of six and twenty-one years, distribution of Interest to the several Counties in the Virginia Military, United States Military, and Connecticut Western Reserve School Districts, accruing in the year 1878, and payable after January 1, 1879.

Counties.	Virginia Military District.		United States Military District.		Connecticut Western Reserve District.	
	Number of scholars.	Interest to be distributed.	Number of scholars.	Interest to be distributed.	Number of scholars.	Interest to be distributed.
Adams.....	8,258	\$809 06	.....	.....	.....	.....
Ashland .....	.....	.....	.....	.....	610	\$58 68
Ashtabula .....	.....	.....	.....	.....	10,369	998 49
Anglaize.....	54	5 23	.....	.....	.....	.....
Brown.....	11,391	1,116 04	.....	.....	.....	.....
Champaign	2,541	248 94	.....	.....	.....	.....
Clarke.....	972	95 22	.....	.....	.....	.....
Clermont	11,916	1,167 47	.....	.....	.....	.....
Clinton	8,270	810 24	.....	.....	.....	.....
Coshocton .....	.....	.....	8,936	\$833 06	.....	.....
Cuyahoga.....	.....	.....	.....	.....	55,655	5,451 17
Delaware.....	928	90 90	7,586	707 16	.....	.....
Erie .....	.....	.....	.....	.....	12,657	1,217 59
Fayette.....	6,329	620 07	.....	.....	.....	.....
Franklin	4,954	485 36	4,479	417 53	.....	.....
Geauga.....	.....	.....	.....	.....	3,689	354 87
Greene	6,580	644 66	.....	.....	.....	.....
Guernsey .....	.....	.....	6,933	646 29	.....	.....
Hamilton	1,507	147 63	.....	.....	.....	.....
Hardin.....	2,606	255 33	.....	.....	.....	.....
Highland	10,228	1,002 98	.....	.....	.....	.....
Holmes .....	.....	.....	5,114	476 72	.....	.....
Huron .....	.....	.....	.....	.....	10,069	968 63
Knox.....	.....	.....	8,058	751 16	.....	.....
Lake .....	.....	.....	.....	.....	5,135	493 97
Licking .....	.....	.....	12,026	1,126 65	.....	.....
Logan	4,331	422 55	.....	.....	.....	.....
Lorain.....	.....	.....	.....	.....	10,722	1,031 44
Madison	6,338	620 95	.....	.....	.....	.....
Mahoning .....	.....	.....	.....	.....	9,748	937 74
Marion	911	89 23	597	55 65	.....	.....
Medina .....	.....	.....	.....	.....	6,436	619 13
Morrow.....	.....	.....	2,340	218 13	.....	.....
Muskingum .....	.....	.....	9,031	841 26	.....	.....
Noble.....	.....	.....	52	4 84	.....	.....
Ottawa.....	.....	.....	.....	.....	979	94 17
Pickaway.....	4,546	445 38	.....	.....	.....	.....
Pike.....	4,112	402 86	.....	.....	.....	.....
Portage .....	.....	.....	.....	.....	7,810	751 31
Ross.....	10,120	991 50	.....	.....	.....	.....
Scioto	2,889	283 04	.....	.....	.....	.....
Summit .....	.....	.....	.....	.....	11,596	1,115 52
Trumbull .....	.....	.....	.....	.....	14,065	1,353 04
Tuscarawas .....	.....	.....	12,200	1,137 28	.....	.....
Union	7,063	692 00	.....	.....	.....	.....
Warren.....	3,325	325 75	.....	.....	.....	.....
Totals	120,151	\$11,771 54	77,412	\$7,216 33	160,550	\$15,445 75

The amount of principal upon which the preceding table of interest is computed, is as follows, to-wit : Virginia Military Fund, \$182,001.89 ; United States Military Fund, \$120,272.12 ; Connecticut Western Reserve Fund, \$257,429.21 ; Total, \$559,703.22.

Toledo city.....	18,970,070	52.9	55,013 90	567,905 10	692,518 50	3,549,133 79	19,508,720	31.9	694,343 10
Troy	1,931,470	24.7	6,601 96	42,106 04	47,707 30	70,000 00	2,013,488	24.9	50,110 95
Urbans city	3,486,697	19.4	10,111 42	57,530 50	67,641 92	115,150 00	2,603,708	18.5	66,639 57
Warren city	2,342,248	21.45	6,602 52	41,553 70	48,096 22	31,262 00	2,304,504	23.1	53,325 63
Washington C. H.	1,001,840	25.0	4,645 33	35,400 67	40,046 00	9,237 75	1,727,330	23.0	39,739 94
Wayne	2,305,435	25.4	6,079 51	51,280 06	58,559 67	53,154 62	2,353,819	22.9-10	53,904 30
Wester city	3,374,935	19.8	9,798 92	57,104 00	66,902 92	57,791 10	2,319,199	19.30	64,613 33
Xenia city	4,417,048	24.4	12,869 18	95,409 43	108,278 61	201,586 66	4,398,385	26.1	114,533 29
Youngtown city ..	7,280,180	23.2	21,112 52	147,767 66	168,900 18	538,241 18	7,525,300	22.75	171,200 66
Zanesville city ..									
Totals	438,057,211	25.469	1,270,358 37	9,295,091 67	11,165,440 04	36,404,818 57	448,710,971	26.404	11,849,650 60

TABLE SHOWING THE AGGREGATE NET AMOUNT OF DEBTS OF ALL THE COUNTIES, TOWNSHIPS, CITIES, AND INCORPORATED VILLAGES, AND SEPARATE SCHOOL DISTRICTS IN THE STATE, AS REPORTED IN PURSUANCE OF THE ACT OF MAY 3, 1873, FOR THE YEAR 1878, AND AS COMPARED WITH THE AGGREGATE DEBTS OF 1877.

Counties.	Debts of counties.	Debts of townships.	Debts of cities and villages.	Debts of separate school districts.	Total, 1878.	Total, 1877.
Adams	\$20,837 00	.....	.....	.....	\$20,837 00	\$31,150 75
Allen .....	.....	.....	\$3,464 00	\$45,000 00	48,464 00	67,400 00
Ashland .....	.....	.....	9,200 00	2,200 00	11,400 00	12,839 84
*Ashtabula .....	.....	.....	.....	.....	.....	.....
Athens	10,675 00	.....	29,300 00	.....	39,975 00	46,550 00
Anglaize	62,000 00	.....	10,652 00	44,400 00	117,052 00	53,200 00
Belmont .....	.....	.....	110,949 29	28,854 02	139,803 31	126,572 00
Brown .....	.....	\$1,000 00	24,000 00	.....	25,000 00	16,500 00
Butler	31,895 20	9,522 53	112,169 52	43,183 01	196,770 26	240,522 66
*Carroll .....	.....	.....	.....	.....	.....	.....
Champaign	81,716 00	.....	50,000 00	77,150 00	208,866 00	260,656 00
Clarke	44,290 00	1,500 00	51,700 00	31,000 00	128,490 00	102,400 00
Clermont .....	.....	10,850 21	3,601 52	6,252 30	20,704 03	14,379 50
Clinton	31,500 00	.....	12,000 00	.....	43,500 00	55,700 00
Columbiana .....	.....	3,000 00	9,611 00	35,800 00	48,411 00	63,759 00
Coshocton .....	.....	.....	6,000 00	7,000 00	13,000 00	13,000 00
Crawford .....	.....	1,000 00	89,000 00	12,350 00	102,350 00	106,631 25
Cuyahoga	324,071 77	6,612 33	3,578,357 84	.....	3,909,041 94	3,350,979 67
Darke .....	.....	1,700 00	2,000 00	38,850 00	42,550 00	48,341 00
Defiance .....	.....	.....	14,000 00	13,365 62	27,365 62	37,315 60
Delaware	53,960 00	.....	16,096 66	3,600 00	73,656 66	88,380 00
Erie	25,000 00	21,393 00	458,996 00	49,344 00	554,733 00	571,627 39
Fairfield .....	.....	.....	19,609 50	17,278 37	36,887 87	44,808 61
Fayette	48,178 80	.....	9,837 75	.....	58,016 55	68,292 20
Franklin	93,000 00	2,000 00	1,460,522 44	3,339 62	1,558,862 06	1,530,884 41
Fulton	14,185 86	.....	.....	10,000 00	24,185 86	35,600 00
Gallia .....	.....	.....	128,276 29	.....	128,276 29	121,024 00
Geauga .....	.....	.....	3,383 16	18,160 00	21,543 16	18,400 00
Greene .....	.....	.....	.....	.....	.....	.....

Hardin	191,000 00	.....	7,382 84	.....	198,382 84	207,291 69
Harrison .....	.....	.....	.....	1,850 00	1,850 00	4,600 00
Henry	5,000 00	.....	3,000 00	25,000 00	33,000 00	44,341 85
Highland .....	.....	.....	.....	34,295 15	34,295 15	39,651 19
Hocking .....	.....	.....	.....	.....	.....	800 00
Holmes .....	.....	.....	1,505 59	.....	1,505 59	1,924 87
Huron .....	.....	.....	77,281 88	.....	77,281 88	25,400 00
Jackson .....	.....	.....	1,633 32	.....	1,633 32	2,449 98
Jefferson .....	.....	14,920 35	34,226 80	6,386 34	55,533 49	86,206 58
Knox	13,500 00	.....	.....	.....	13,500 00	.....
Lake .....	.....	.....	12,716 43	.....	12,716 43	10,889 72
Lawrence	74,627 28	.....	249,884 12	1,700 00	326,211 40	305,450 04
Licking	125,000 00	1,633 20	40,720 79	.....	167,353 99	119,356 73
Logan	121,455 02	.....	24,740 76	44,539 08	190,734 86	157,215 73
Lorain .....	.....	.....	.....	35,900 00	35,900 00	40,550 00
Lucas	140,900 02	.....	3,556,133 79	.....	3,697,033 51	3,923,275 53
Madison	17,389 94	.....	1,000 00	.....	18,389 94	11,534 04
Mahoning .....	.....	.....	201,566 66	13,900 00	215,466 66	214,796 43
Marion	40,173 20	.....	1,246 00	4,749 08	46,168 28	64,441 41
Medina .....	.....	.....	21,263 00	1,500 00	22,763 00	20,426 86
Meigs .....	.....	.....	160,000 00	4,160 00	164,150 00	164,500 00
Mercer	20,000 00	.....	17,850 00	.....	37,850 00	44,200 00
Miami	36,800 00	.....	362,739 93	6,845 00	406,353 93	491,990 03
Monroe	1,403 44	.....	7,451 23	.....	8,859 67	12,364 18
Montgomery	76,840 00	.....	1,141,487 18	3,034 70	1,221,361 88	1,173,298 15
Morgan .....	.....	.....	.....	.....	.....	.....
Morrow .....	.....	.....	10,855 55	9,300 00	20,155 55	20,312 86
Muskingum	125,000 00	.....	638,243 18	28,742 00	691,985 18	713,919 18
Noble .....	.....	.....	.....	2,600 00	2,600 00	2,584 58
Ottawa	6,075 00	.....	2,550 00	16,800 00	25,425 00	23,809 70
Paulding	61,000 00	1,200 00	.....	14,278 00	76,473 00	78,300 00
Perry .....	.....	.....	.....	11,658 55	11,658 55	17,243 65
Pickaway	6,450 00	1,320 00	3,500 00	.....	10,270 00	8,317 00
Pike .....	.....	.....	.....	.....	.....	4,353 47
Portage .....	.....	.....	7,000 00	11,700 00	18,700 00	13,132 33
Preble .....	.....	.....	3,829 05	3,355 00	7,247 05	12,253 71
Putnam	34,000 00	.....	.....	1,000 00	35,000 00	33,000 00
Richland .....	.....	3,500 00	191,850 00	11,050 00	206,400 00	199,393 01
Rees	109,490 80	.....	5,856 83	.....	115,347 63	123,376 48
Sandusky	12,600 00	.....	73,562 50	8,200 00	94,362 50	71,493 63
Scioto	237,048 82	.....	269,129 15	49,400 00	555,617 97	542,767 11
Seneca	15,686 18	.....	65,358 86	1,400 00	82,445 04	109,478 04

TABLE SHOWING THE AGGREGATE NET AMOUNT OF DEBTS OF ALL THE COUNTIES, ETC.—Continued.

Counties.	Debts of counties.	Debts of townships.	Debts of cities and villages.	Debts of separate school districts.	Total, 1878.	Total, 1877.
Shelby	\$100,000 00	\$18,300 00	\$58,500 00	.....	\$176,800 00	\$203,500 00
Stark	58,100 00	1,590 00	225,033 17	\$62,128 43	346,851 60	361,371 58
Summit .....	.....	10,414 00	37,762 00	23,561 00	71,737 00	87,754 86
Trumbull	15,000 00	.....	31,262 00	9,100 00	55,362 00	34,500 00
Tuscarawas	18,909 56	.....	16,914 24	58,381 20	94,205 00	72,354 28
Union	177,700 00	.....	14,826 07	26,233 42	218,759 49	254,677 14
Van Wert	110,000 00	.....	15,000 00	13,000 00	138,000 00	136,500 00
*Vinton .....	.....	.....	.....	.....	.....	.....
Warren	4,000 00	.....	25,534 70	3,000 00	32,534 70	39,628 80
Washington	25,837 75	.....	186,535 71	16,789 60	229,163 06	247,486 13
Wayne	29,100 00	.....	67,845 00	27,313 82	124,258 82	135,665 64
Williams .....	.....	.....	.....	9,000 00	9,000 00	11,500 00
Wood	38,000 00	.....	23,587 91	20,700 00	82,287 91	68,729 09
Wyandot .....	.....	.....	.....	4,075 77	4,075 77	6,085 03
Totals	\$3,169,517 42	\$160,955 72	\$36,717,269 34	\$1,158,098 14	\$41,205,840 62	\$39,328,569 10

*No Debts,

BANKS.
TABLE SHOWING THE NUMBER OF BANKS AND THEIR CAPITAL STOCK IN EACH COUNTY IN OHIO AS RETURNED TO THE COUNTY AUDITORS FOR THE YEAR ENDING APRIL 12, 1878.

Counties.	National banks.			Banks incorporated Savings banks incorporated under act of February 21, 1845. February 26, 1875.			Private banks.			Total.		
	No.	Capital.	No.	Capital.	No.	Capital.	No.	Capital.	No.	Capital.	No.	Capital.
Adams.....	1	\$50,000	.....	.....	.....	.....	1	\$30,000	2	\$80,000	2	\$80,000
Allen.....	2	155,000	.....	.....	.....	.....	6	57,834	8	212,835	8	212,835
Ashtabula.....	1	50,000	1	\$12,500	.....	.....	1	35,000	3	97,500	3	97,500
Ashland.....	5	620,000	.....	.....	3	\$230,000	2	10,425	10	760,425	10	760,425
Athens.....	1	75,000	1	9,000	.....	.....	1	50,000	3	134,000	3	134,000
Auglaize.....	.....	.....	.....	.....	.....	.....	4	54,000	4	54,000	4	54,000
Bellmont.....	4	500,000	2	100,000	.....	.....	2	25,000	8	625,000	8	625,000
Brown.....	3	300,000	.....	.....	.....	.....	.....	.....	2	300,000	2	300,000
Butler.....	4	400,000	.....	.....	.....	.....	4	97,262	8	497,262	8	497,262
Carroll.....	.....	.....	.....	.....	.....	.....	2	43,362	2	43,362	2	43,362
Champaign.....	4	400,000	.....	.....	.....	.....	2	33,500	6	433,500	6	433,500
Clark.....	4	900,000	.....	.....	.....	.....	1	100,000	5	1,000,000	5	1,000,000
Clermont.....	2	200,000	.....	.....	.....	.....	2	24,513	4	924,513	4	924,513
Clinton.....	3	300,000	.....	.....	.....	.....	2	45,300	4	245,300	4	245,300
Columbiana.....	5	305,000	.....	.....	.....	.....	5	64,000	10	369,000	10	369,000
Coshocton.....	1	85,000	.....	.....	.....	.....	1	10,000	2	95,000	2	95,000
Crawford.....	3	210,000	.....	.....	.....	.....	2	50,000	5	260,000	5	260,000
Cuyahoga.....	7	4,400,000	.....	.....	.....	.....	7	82,854	14	4,482,854	14	4,482,854
Darke.....	1	84,000	.....	.....	.....	.....	3	59,500	4	143,500	4	143,500
Defiance.....	1	100,000	.....	.....	1	50,000	.....	.....	2	150,000	2	150,000
Delaware.....	3	200,000	.....	.....	.....	.....	1	18,350	3	218,350	3	218,350
Eric.....	1	50,000	.....	.....	.....	.....	.....	.....	3	300,000	3	300,000
Fairfield.....	.....	.....	.....	.....	.....	.....	2	65,000	3	145,000	3	145,000
Fayette.....	.....	.....	.....	.....	.....	.....	2	45,000	2	45,000	2	45,000
Franklin.....	3	500,000	.....	.....	1	100,000	11	180,000	15	780,000	15	780,000
Fulton.....	.....	.....	.....	.....	.....	.....	2	11,556	2	11,556	2	11,556
Galla.....	3	150,000	.....	.....	.....	.....	1	100,000	3	250,000	3	250,000
Geauga.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....
Greene.....	3	220,000	.....	.....	.....	.....	1	46,500	3	266,500	3	266,500

TABLE SHOWING THE AGGREGATE NET AMOUNT OF DEBTS OF ALL THE COUNTIES, ETC.—Continued.

Counties.	Debts of counties.	Debts of townships.	Debts of cities and villages.	Debts of separate school districts.	Total, 1878.	Total, 1877.
Shelby	\$100,000 00	\$18,300 00	\$58,500 00	.....	\$176,800 00	\$203,500 00
Stark	58,100 00	1,590 00	225,033 17	\$62,128 43	346,851 60	361,371 58
Summit .....	.....	10,414 00	37,762 00	23,561 00	71,737 00	87,754 86
Trumbull	15,000 00	.....	31,262 00	9,100 00	55,362 00	34,500 00
Tuscarawas	18,909 56	.....	16,914 24	58,381 20	94,205 00	72,354 28
Union	177,700 00	.....	14,826 07	26,233 42	218,759 49	254,677 14
Van Wert	110,000 00	.....	15,000 00	13,000 00	138,000 00	136,500 00
*Vinton .....	.....	.....	.....	.....	.....	.....
Warren	4,000 00	.....	25,534 70	3,000 00	32,534 70	39,628 80
Washington	25,837 75	.....	186,535 71	16,789 60	229,163 06	247,486 13
Wayne	29,100 00	.....	67,845 00	27,313 82	124,258 82	135,665 64
Williams .....	.....	.....	.....	9,000 00	9,000 00	11,500 00
Wood	38,000 00	.....	23,587 91	20,700 00	82,287 91	68,729 09
Wyandot .....	.....	.....	.....	4,075 77	4,075 77	6,085 03
Totals	\$3,169,517 42	\$160,955 72	\$36,717,269 34	\$1,158,093 14	\$41,205,840 62	\$39,328,569 10

*No Debts,

First	Springfield	Clarke	100	400,000 00	100 00	50 00	356,000	220	356,200
Second	"	"	100	177,000 00	137 00	127 00	127,000	500	127,500
Laguna	"	"	1,000	70,000 00	74 00	85 00	85,000	.....	85,000
Mad River	"	"	1,000	390,000 00	100 00	85 00	255,000	.....	255,000
First	Islavia	Clermont	1,000	90,000 00	90 00	90 00	90,000	.....	90,000
"	New Richmond	"	1,000	95,000 00	85 00	90 00	92,000	2,600	100,600
"	Wilmington	Clinton	1,000	93,067 00	93 06	93 00	93,000	6,933	104,933
Clinton County	"	"	1,000	83,872 00	83 83	92 00	92,000	6,168	98,168
First	East Liverpool	Columbiana	500	42,500 00	85 00	80 00	43,000	4,170	47,170
"	New Lisbon	"	1,930	42,750 00	85 00	80 00	44,500	1,960	46,460
"	Salem	"	2,000	118,750 00	95 00	96 00	110,000	900	110,900
Farmers'	Wellsville	"	500	900,000 00	100 00	98 00	1,200,000	4,360	176,360
"	Coshocton	"	1,000	40,000 00	80 00	79 00	39,000	5,600	45,000
"	Crawford	"	850	100,000 00	100 00	86 00	73,100	7,160	80,260
Citizens'	Union	"	600	60,000 00	100 00	83 00	82,000	7,160	89,160
First	Cleveland	Cuyaboga	500	50,000 00	100 00	81 00	50,400	4,500	54,900
"	Berea	"	3,000	225,000 00	75 00	92 00	276,000	6,800	282,800
Second	Cleveland	"	500	25,000 00	60 00	59 00	41,500	3,620	45,120
Commercial	"	"	10,000	690,000 00	68 00	82 00	820,000	31,201	851,201
Merchants'	"	"	12,000	850,000 00	60 00	60 00	1,025,000	29,810	1,054,810
National City	"	"	12,000	861,000 00	72 00	84 00	1,008,000	32,185	1,040,185
Ohio National	"	"	9,000	140,000 00	70 00	87 00	174,000	.....	174,000
Farmers' National	Greenville	"	400	980,000 00	65 00	86 00	344,000	.....	344,000
Defiance	Defiance	"	1,000	105,000 00	125 00	94 00	78,900	2,120	81,020
First	Delaware	Delaware	1,000	87,000 00	57 00	91 00	91,000	.....	91,000
Delaware County National	"	"	1,000	100,000 00	100 00	83 00	82,000	4,960	86,960
First National	Bandsky	Erie	1,000	100,000 00	100 00	83 00	83,000	7,930	90,930
Second National	"	"	1,000	71,120 00	71 12	85 00	85,000	3,880	88,880
Third	"	"	1,000	71,773 00	71 77	78 00	78,000	3,225	81,225
First	Lawrence	Fairfield	1,000	58,493 00	58 49	60 00	60,000	1,507	61,507
Hocking Valley National	Washington C. H.	Payette	800	80,000 00	100 00	60 00	64,000	3,870	67,870
First National	Columbus	Franklin	3,000	240,240 00	93 41	97 00	291,000	19,760	310,760
Franklin National	"	"	1,000	140,000 00	100 00	123 00	123,000	2,273	125,273
National exchange	"	"	1,000	110,000 00	110 00	145 00	145,000	.....	145,000
First National	Gallipolis	Gallia	1,000	115,000 00	115 00	103 01	103,000	.....	103,000
Centerville National	Centerville	"	500	45,000 00	90 00	87 00	43,500	.....	43,500
First National	Xenia	Greene	1,800	87,600 00	73 00	64 00	76,900	32,900	109,790
Second	"	"	1,000	107,000 00	107 00	78 00	78,000	11,642	91,642
First	Cambridge	Germany	1,000	65,000 00	65 00	76 00	76,000	10,695	86,695

TABLE SHOWING THE VALUATION OF NATIONAL BANKS IN OHIO FOR TAXATION, AS FIXED BY THE STATE BOARD OF EQUALIZATION.

Name of bank.	Location.	County.	Number of shares.	Par value of each share.	County Board of Equalization.		State Board of Equalization.		Assessed value of each estate owned by each bank.	Total valuation of each bank for taxation.
					Valuation of each estate, exclusive of real estate.	Valuation of each share, exclusive of real estate.	Valuation of each share for taxation, exclusive of real estate.	Valuation of each estate, exclusive of real estate.		
Manchester National	Manchester	Adams	\$500	\$100	\$45,000 00	\$90 00	\$92 00	\$45,000	\$4,890	\$50,890
First	Lima	Allen	650	100	44,000 00	80 00	77 00	42,350	10,760	53,110
"	Delphos	"	1,000	100	110,000 00	110 00	84 00	84,000	500	84,500
"	Ashtabula	Ashland	500	100	30,370 00	60 75	57 00	28,500	14,627	43,127
Ashtabula Farmers'	Ashtabula	Ashtabula	1,000	100	51,371 00	51 37	84 00	84,000	10,275	94,275
"	"	"	1,500	100	100,781 00	60 52	68 00	132,000	13,490	145,490
First	Geneva	"	1,000	100	10,979 00	60 95	87 00	87,000	9,733	96,733
"	Jefferson	"	700	100	43,435 00	61 91	83 00	58,100	8,109	66,209
"	"	"	1,000	100	49,935 00	49 94	85 00	85,000	8,728	93,728
Second	"	Atbena	750	100	69,136 00	92 17	83 00	62,250	5,464	68,114
First	Barnesville	Belmont	1,030	100	97,427 00	97 42	85 00	85,000	2,573	87,573
"	Bellaire	"	1,000	100	78,821 00	78 82	83 00	83,000	1,179	84,179
"	Bridgeport	"	2,000	100	158,708 00	79 85	81 00	162,000	13,202	175,202
"	St. Clairsville	"	1,000	100	97,334 00	97 33	88 00	88,000	2,646	90,636
"	Ripley	Brown	1,500	100	145,440 00	96 96	87 00	130,500	4,569	135,069
Farmers'	"	"	1,500	100	144,115 00	95 07	90 00	135,000	5,887	140,887
First	Hamilton	Butler	1,000	100	93,401 67	93 40	85 00	85,000	9,407	94,407
Second	"	"	1,000	100	80,956 46	89 95	79 00	79,000	11,790	90,789
"	Middletown	"	1,000	100	102,000 00	102 00	90 00	90,000	6,470	96,470
Merchants'	"	"	1,000	100	101,765 42	101 76	82 00	82,000	6,760	88,760
Third	Urbana	Champaign	1,000	100	98,000 00	98 00	80 00	80,000	8,000	88,000
Champaign Citizens'	"	"	1,000	100	94,000 00	94 00	93 00	93,000	4,039	97,039
"	"	"	1,000	100	60,000 00	60 00	84 00	84,000	84,000	84,000
Farmers'	Mechanicburg	"	1,000	100	80,000 00	80 00	83 00	83,000	1,120	84,120

First National	Mt. Vernon	Knox	500	100	47,000 00	94 00	88 00	44,000	.....	44,000
Knox County National	"	"	1,000	100	83,745 81	83 74	80 00	80,000	6,949	86,949
First National	Painesville	Lake	2,000	100	181,316 00	90 65	87 00	174,000	18,684	192,684
"	Ironton	Lawrence	3,000	100	291,121 00	97 04	85 00	255,000	8,879	263,879
Second "	"	"	2,500	100	244,402 00	97 36	83 00	207,500	6,598	214,098
First "	Newark	Licking	1,000	100	100,000 00	100 00	83 00	83,000	10,684	93,684
"	Granville	"	500	100	40,000 00	80 00	59 00	44,500	850	45,350
Bellefontaine National	Bellefontaine	Logan	1,150	100	100,050 00	87 00	85 00	97,750	2,300	100,130
First "	Elyria	Lorain	1,000	100	85,000 00	85 00	95 00	85,000	.....	95,000
"	(berlin	"	1,000	100	80,000 00	80 00	86 00	86,000	.....	86,000
"	Wellington	"	1,000	100	80,000 00	80 00	89 00	89,000	3,000	92,000
"	Toledo	Lucas	5,000	100	384,000 00	76 80	80 00	445,000	20,230	465,230
Second "	"	"	3,500	100	269,325 00	76 95	80 00	311,500	2,130	313,630
Merchants'	"	"	3,000	100	226,040 00	75 36	97 00	281,000	.....	281,000
Northern	"	"	1,500	100	94,830 00	63 22	72 00	108,000	26,770	132,770
Toledo	"	"	1,000	100	63,920 00	63 92	73 00	73,000	14,800	87,800
Commercial National	"	"	1,000	100	63,120 00	63 12	83 00	83,000	.....	83,000
Madison	London	Madison	1,200	100	124,800 00	104 00	87 00	104,400	.....	104,400
First	Youngstown	Mahoning	5,000	100	395,134 00	79 27	84 00	420,000	4,866	424,866
Second	"	"	2,000	100	150,000 00	75 00	84 00	164,000	.....	164,000
Mahoning	"	"	2,290	100	159,304 00	69 56	80 00	183,200	12,446	195,646
Phoenix	Medina	Medina	750	100	75,000 00	100 00	83 00	62,250	.....	62,250
First	Middleport	Meigs .....	.....	.....	.....	.....	.....	.....	.....	.....
"	Pomeroy .....	" .....	.....	.....	.....	.....	.....	.....	.....	.....
Pomeroy	"	"	2,500	100	243,863 00	97 54	86 00	212,500	6,137	218,637
Citizens'	Piqua	Miami	1,000	100	90,000 00	90 00	75 00	75,000	9,830	84,830
Piqua	"	"	2,000	100	220,000 00	110 00	86 00	172,000	.....	172,000
First	Troy	"	2,000	100	230,000 00	115 00	96 00	192,000	.....	192,000
Second	Dayton	Montgomery	3,000	100	375,000 00	125 00	102 00	306,000	.....	306,000
Dayton	"	"	3,000	100	345,000 00	115 00	96 00	288,000	.....	288,000
Merchants'	"	"	1,344	100	138,450 00	100 00	83 00	114,913	.....	114,913
First	Germanatown	"	750	100	93,750 00	125 00	100 00	75,000	3,620	78,620
Malta	Malta	Morgan	750	100	64,250 00	91 00	85 00	63,750	1,374	65,124
First	McConnellsville	"	1,000	100	100,000 00	100 00	87 00	87,000	3,013	90,013
"	Cardington	Morrow	1,000	100	100,000 00	100 00	86 00	86,000	4,542	90,542
"	Mt. Gilead	"	600	100	60,000 00	100 00	95 00	57,000	2,300	59,300
Zanesville	Zanesville	Muskingum	2,000	100	194,000 00	97 00	81 00	162,000	12,000	174,000
Caldwell	Caldwell	Noble	600	100	44,000 00	80 00	85 00	51,000	.....	51,000
Batesville	Batesville	"	600	100	47,000 00	78 33	83 00	49,500	1,000	50,500
Circleville	Circleville	Pickaway	2,000	100	312,000 00	120 00	85 00	221,000	18,000	239,000
"	"	"	1,250	100	756,250 00	125 00	93 00	116,250	7,344	123,594
Garrettsville	Garrettsville	Portage	1,000	100	65,000 00	65 00	77 00	77,000	8,200	85,200

VALUATION OF NATIONAL BANKS, ETC.—Continued.

Name of bank.	Location.	County.	Number of shares.	Par value of each share.	County Board of Equal-ization.		State Board of Equal-ization.		Assessed value of real estate owned by each bank.	Total valuation of each bank for taxation.
					Valuation of each bank exclusive of real estate.	Valuation of each share, exclusive of real estate.	Valuation of each share, exclusive of real estate.	Valuation of each bank for taxation, exclusive of real estate.		
Guerney National	Cambridge	Guerney	1,500	\$100	\$132,000 00	\$88 00	\$94 00	\$126,000 00	\$5,050	\$131,050
Quaker City	Quaker City	"	1,000	100	55,000 00	85 00	88 00	66,000 00	2,445	90,535
First	Cincinnati	Hamilton	15,000	100	1,251,064 00	90 07	80 00	1,200,000 00	53,300	1,253,300
Second	"	"	2,000	100	208,974 00	104 48	84 00	168,000 00	16,500	164,500
Third	"	"	8,000	100	640,034 00	16 13	76 00	604,000 00	36,550	644,550
Fourth	"	"	5,000	100	422,600 00	95 53	83 00	415,000 00	—	415,000
Merchants'	"	"	10,000	100	946,612 00	94 66	85 00	850,000 00	—	850,000
National Bank of Commerce	"	"	3,000	100	276,770 00	92 25	84 00	232,000 00	—	232,000
First National	Findlay	Hancock	600	100	50,000 00	100 00	91 00	45,500 00	360	45,860
"	Cadiz	Harrison	1,200	100	102,000 00	85 00	89 00	103,000 00	5,939	111,599
"	"	"	1,000	100	120,000 00	120 00	115 00	115,000 00	—	115,000
Harrison	"	Henry	—	—	—	—	—	—	—	—
First	Napoleon	Highland	1,000	100	100,000 00	100 00	92 00	92,000 00	—	92,000
Citizens'	Hillsboro	"	1,000	100	122,500 00	122 50	97 00	97,000 00	1,971	98,971
Hillsboro	"	"	500	100	50,000 00	100 00	86 00	43,000 00	—	43,000
First	Logan	Hocking	500	100	25,500 00	51 00	83 00	41,500 00	1,480	42,980
"	New London	Huron	500	100	26,000 00	62 00	78 00	30,000 00	3,160	32,160
"	Plymouth	"	500	100	33,000 00	70 00	59 00	49,500 00	—	49,500
"	Norwalk	"	500	100	67,000 00	67 00	66 00	66,000 00	—	66,000
Norwalk	"	"	1,000	100	47,575 00	95 15	83 00	41,500 00	3,420	44,925
First	Jackson	Jackson	500	100	131,250 00	75 00	96 00	130,500 00	530	151,330
"	Mt. Pleasant	Jefferson	1,700	100	80,000 00	60 00	81 00	84,000 00	8,920	92,920
"	Smithfield	"	1,000	100	142,500 00	95 00	92 00	138,000 00	11,030	149,030
Jefferson	Steubenville	"	1,500	100	76,000 00	75 00	87 00	67,000 00	—	67,000
National Exchange	"	"	1,000	100	—	—	—	—	—	—

First	Warren	3,000	100	225,000 00	75 00	83 00	249,000	13,104	982,104
Trembull National	"	1,500	100	114,024 00	78 04	83 00	121,500	5,528	130,024
Citizens'	New Philadel'ia	1,000	100	85,000 00	85 00	81 00	61,000	2,554	83,554
First	Van Wert	1,000	100	61,000 00	103 00	87 00	52,200	3,180	55,380
Vinton County National	McArthur	1,000	100	45,000 00	85 00	83 00	43,000	1,244	84,244
First	Franklin	1,000	100	120,000 00	120 00	101 00	106,000	.....	169,000
Farmers'	"	500	100	70,000 00	100 00	87 00	41,000	.....	43,500
Waynesville	Waynesville	500	100	47,500 00	95 00	86 00	43,000	.....	40,000
First	Marietta	1,500	100	144,874 00	96 51	81 00	121,700	6,122	125,622
"	Beverly	1,020	100	5,100 00	5 00	5 00	5,100	.....	5,100
National Bank of Woos-	" .....	.....	.....	.....	.....	.....	.....	.....	.....
ter	Wooster	539	100	37,730 00	70 00	87 00	46,803	3,945	50,934
Wayne County National	"	500	100	42,500 00	85 00	75 00	37,500	8,100	45,000
First	Bryan	600	100	42,872 00	71 45	77 00	46,200	6,410	52,610
"	Upper Sandusky	1,000	100	126,000 00	120 00	101 00	106,000	.....	106,000
Lebanon	Lebanon	500	100	50,000 00	100 00	85 00	42,500	.....	42,500
Totals .....	.....	.....	.....	\$23,814,948 96	.....	.....	\$23,570,816	\$940,806	\$24,511,712

† Discontinued since last year.

VALUATION OF NATIONAL BANKS, ETC.—Continued.

Name of bank.	Location.	County.	Number of shares.	Par value of each share.	County Board of Equalization.		State Board of Equalization.		Assessed value of real estate owned by each bank.	Total valuation of each bank for taxation.
					Valuation of each bank for taxation, exclusive of real estate.	Valuation of each share, exclusive of real estate.	Valuation of each share for taxation, exclusive of real estate.	Valuation of each bank for taxation, exclusive of real estate.		
First National.....	Ravenna.....	Portage.....	1,000	\$100	\$28,000 00	\$28 00	\$28 00	\$28,000 00	\$4,300	\$32,300
Second ".....	".....	".....	1,500	100	114,000 00	76 00	74 00	111,000 00	\$0,700	\$11,700
Kent ".....	Kent.....	".....	1,000	100	\$1,000 00	\$1 00	\$0 00	\$0 00	7,700	\$7,700
First ".....	Eaton.....	Preble.....	1,000	100	107,000 00	107 00	114 00	92,000 00	3,800	10,800
Farmers' ".....	Mansfield.....	Richland.....	1,000	100	97,242 66	97 24	77 00	77,000 00	1,400	\$1,400
First ".....	Shelby.....	".....	500	100	50,924 68	101 84	\$1 00	40,000 00	1,000	41,000
".....	Chillicothe.....	Ross.....	1,500	100	232,500 00	155 00	155 00	232,500 00	6,000	\$6,000
†Chillicothe National.....	".....	".....	1,500	100	153,000 00	102 00	\$4 00	132,000 00	11,000	143,000
Ross County ".....	".....	".....	1,000	100	118,710 00	118 70	100 00	100,000 00	11,000	117,000
First ".....	Fremont.....	Sandusky.....	1,000	100	40,400 00	\$0 40	\$4 00	42,000 00	42,000	42,000
".....	Bellevue.....	".....	2,000	100	170,000 00	\$5 00	20 00	160,000 00	6,400	166,400
".....	Portsmouth.....	Scioto.....	2,500	100	212,500 00	\$6 00	\$3 00	207,500 00	\$10,000	\$110,000
Farmers' ".....	".....	".....	2,500	100	236,000 00	100 00	87 00	217,000 00	9,400	\$10,000
†Kinney ".....	".....	".....	1,500	100	64,500 00	100 00	\$3 00	44,500 00	600	45,100
Portsmouth ".....	Green Spring.....	Seneca.....	1,250	100	67,500 00	70 00	74 00	67,500 00	4,147	104,147
First ".....	Tiffin.....	".....	500	100	7,000 00	13 00	13 00	7,000 00	3,000	10,000
National Exchange.....	Sidney.....	Shelby.....	500	100	41,500 00	\$3 04	\$3 04	34,000 00	3,700	37,700
First National.....	Alliance.....	Stark.....	1,000	100	91,400 00	\$1 43	00 00	80,000 00	\$1,000	\$1,000
".....	Canton.....	".....	2,000	100	192,000 00	\$9 60	\$9 60	174,000 00	\$1,000	\$1,000
".....	Massillon.....	".....	1,000	100	90,350 00	90 35	\$9 00	80,000 00	\$1,000	\$1,000
Union ".....	".....	".....	1,000	100	103,000 00	70 00	95 00	144,000 00	4,000	147,000
†First ".....	Minerva.....	Summit.....	1,500	100	70,000 00	70 00	94 00	94,000 00	4,000	98,000
".....	Akron.....	".....	1,000	100	70,000 00	70 00	94 00	94,000 00	4,000	98,000
Second ".....	".....	".....	1,000	100	70,000 00	70 00	94 00	94,000 00	4,000	98,000

Garrettsville Savings and Loan Association	Garrettsville	"	8,000 00	39,500 00	61	24,095 00
Mansfield Savings Bank	Mansfield	Richland	28,844 09	50,000 00	50	25,000 00
Citizens' Savings Bank	Portsmouth	Scioto	42,500 00	50,000 00	75	37,500 00
Commercial Bank	Tiffin	Seneca	87,000 00	100,000 00	71	71,000 00
22 Farmers' Bank	Canton	Stark	18,000 00	25,000 00	75	18,750 00
Citizens' Savings and Loan Association	Akron	Summit	46,500 00	75,000 00	120	90,000 00
Citizens' Savings and Loan Association	Niles	Trumbull	12,054 00	37,939 84	61	23,143 00
Girard Savings Bank	Girard	"	20,000 00	25,000 00	94	23,500 00
Hubbard Savings Bank	Hubbard	"	33,000 00	50,000 00	66	33,000 00
Central Bank	Upper Sandusky	Wyandot	20,000 00	25,000 00	66	16,500 00
Totals .....	.....	.....	\$1,235,073 09	\$1,970,716 33		\$1,392,122 00

BONDS.

TABLE SHOWING THE AMOUNT OF BONDS EXEMPT FROM TAXATION IN EACH
IN OHIO AS REPORTED BY COUNTY AUDITORS.

Counties.	Bonds exempt from taxa- tion.	Counties.	Bo en
Adams	\$131,416	Licking	
Allen	9,963	Logan	
Ashland	54,910	Lorain	
Ashtabula	81,120	Lucas	
Athens	14,637	Madison	
Anglaize	23,580	Mahoning	
Belmont	153,257	Marion	
Brown	55,423	Medina	
Butler	108,880	Meigs	
Carroll	8,003	Mercer	
Champaign	6,790	Miami	
Clarke	66,900	Monroe	
Clermont	81,817	Montgomery	
Clinton	43,676	Morgan	
Columbiana	54,645	Morrow	
Coshocton	29,909	Muskingum	1.
Crawford	43,860	Noble	
Cuyahoga	160,191	Ottawa	
Darke	16,633	Paulding	
Defiance	3,600	Perry	
Delaware	15,005	Pickaway	
Erie	45,575	Pike	
Fairfield	69,159	Portage	
Fayette	11,651	Preble	
Franklin	38,742	Putnam	
Fulton	2,621	Richland	
Gallia	36,314	Ross	
Geauga	89,914	Sandusky	
Greene	97,579	Scioto	
Guernsey	22,476	Seneca	
Hamilton	1,855,254	Shelby	
Hancock	41,162	Stark	
Hardin	4,535	Summit	
Harrison	45,800	Trumbull	
Henry	1,439	Tuscarawas	
Highland	57,363	Union	
Hocking	29,666	Van Wert	
Holmes	13,529	Vinton	
Huron	108,240	Warren	
Jackson	82,948	Washington	
Jefferson	17,010	Wayne	
Knox	10,565	Williams	
Lake	115,553	Wood	
Lawrence	50,584	Wyandot	
Total			\$7

RAILROAD STATISTICS.

TABLE SHOWING THE VALUATION OF RAILROAD PROPERTY IN EACH COUNTY AND TOTAL TAXES LEVIED THEREON, AS REPORTED BY COUNTY AUDITORS. *

Counties.	Valuation.	Taxes.	Counties.	Valuation.	Taxes.
Adams	5,165	\$127 56	Licking	1,222,950	\$16,108 50
Allen	1,471,789	28,911 30	Logan	914,320	11,467 42
Ashland	580,318	7,192 29	Lorain	2,143,340	25,044 11
Ashtabula	1,928,758	29,298 38	Lucas	2,411,410	68,380 12
Athens	792,812	14,245 41	Madison	612,540	6,926 77
Anglaize	258,424	4,031 89	Mahoning	855,516	10,176 81
Belmont	814,343	10,052 34	Marion	1,217,104	12,865 25
Brown	60,894	919 92	Medina	243,199	2,370 75
Butler	1,219,395	13,692 86	Meigs†		
Carroll	269,875	2,132 72	Mercer†		
Champaign	1,149,723	12,395 84	Miami	670,895	9,004 80
Clarke	1,335,115	13,518 06	Monroe†		
Clermont	193,000	2,686 06	Montgomery	1,357,190	19,238 92
Clinton	434,351	6,192 16	Morgan†		
Columbiana	2,533,600	23,697 21	Morrow	599,037	5,443 48
Coshocton	407,230	4,817 49	Muskingum	913,049	11,996 59
Crawford	1,528,330	25,966 33	Noble	66,407	798 37
Cuyahoga	3,989,356	72,241 12	Ottawa	1,324,917	25,523 25
Darke	1,212,850	15,879 37	Paulding	239,796	6,688 56
Defiance	565,754	13,928 36	Perry	471,226	9,583 16
Delaware	1,135,038	12,482 50	Pickaway	346,918	4,117 52
Erie	1,362,671	33,598 61	Pike	197,975	2,666 11
Fairfield	726,984	9,112 86	Portage	1,737,567	16,984 54
Fayette	284,714	4,183 27	Preble	547,406	5,512 61
Franklin	2,249,790	26,485 12	Putnam	302,820	6,336 28
Fulton	759,800	15,589 49	Richland	23,314	23,746 04
Gallia	2,500	55 00	Ross	685,679	8,289 88
Geauga	95,870	938 10	Sandusky	1,157,559	17,345 02
Greene	897,857	9,722 90	Scioto	309,888	5,342 31
Guernsey	453,001	5,877 47	Seneca	1,040,987	14,214 22
Hamilton	2,762,642	55,389 40	Shelby	841,810	12,461 13
Hancock	240,404	3,719 35	Stark	2,179,336	25,294 36
Hardin	1,272,800	24,672 26	Summit	789,380	9,749 41
Harrison	477,640	4,302 94	Trumbull	1,505,296	14,596 28
Henry	535,325	12,913 07	Tuscarawas	1,083,392	17,039 93
Highland	281,065	3,694 20	Union	847,841	11,083 57
Hocking	596,686	8,419 70	Van Wert	1,048,645	20,556 32
Holmes	493,880	6,186 74	Vinton	283,632	4,748 69
Huron	1,624,099	21,001 01	Warren	937,625	9,756 77
Jackson	343,952	5,708 38	Washington	433,978	6,648 69
Jefferson	1,681,020	15,923 39	Wayne	1,804,832	20,117 55
Knox	473,818	4,822 61	Williams	752,697	10,320 16
Lake	1,177,868	12,328 03	Wood	1,319,950	26,890 57
Lawrence	152,659	2,513 62	Wyandot	1,243,900	16,914 63
Totals				76,113,501	\$1,128,116 81

* For railroad mortgages and cancellations see conveyance statistics.

† No railroads.

BONDS.

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Highland	57,363	Union	
Hocking	29,666	Van Wert	
Holmes	13,529	Vinton	
Huron	108,240	Warren	
Jackson	82,948	Washington	
Jefferson	17,010	Wayne	
Knox	10,565	Williams	
Lake	115,553	Wood	
Lawrence	50,584	Wyandot	
Total			\$7

RAILROAD STATISTICS.

TABLE SHOWING THE VALUATION OF RAILROAD PROPERTY IN EACH COUNTY AND TOTAL TAXES LEVIED THEREON, AS REPORTED BY COUNTY AUDITORS.*

Counties.	Valuation.	Taxes.	Counties.	Valuation.	Taxes.
Adams	5,165	\$197 56	Licking	1,222,950	\$16,104 50
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Belmont	814,343	10,052 34	Marion	1,217,104	12,865 25
Brown	60,894	919 92	Medina	243,199	2,370 75
Butler	1,219,395	13,692 86	Meigs†		
Carroll	269,875	2,132 72	Mercer†		
Champaign	1,149,723	12,395 84	Miami	670,895	9,004 80
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Crawford	1,528,330	25,966 33	Noble	66,407	793 37
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Franklin	2,249,790	26,485 12	Putnam	302,220	6,336 28
Fulton	769,800	15,589 49	Richland	23,314	23,446 04
Gallia	2,500	55 50	Ross	685,659	8,289 88
Geauga	95,870	938 10	Sandusky	1,157,559	17,345 02
Greene	897,857	9,722 90	Scioto	309,588	5,342 31
Guernsey	453,001	5,877 47	Seneca	1,040,987	14,214 22
Hamilton	2,762,642	55,389 40	Shelby	841,810	12,461 13
Hancock	240,404	3,569 35	Stark	2,119,336	25,294 36
Hardin	1,272,800	24,672 26	Summit	789,380	9,349 41
Harrison	477,640	4,302 94	Trumbull	1,505,296	14,396 28
Henry	535,325	12,913 67	Tuscarawas	1,083,392	17,039 93
Highland	251,065	3,094 20	Union	847,841	11,083 57
Hocking	596,666	8,419 70	Van Wert	1,048,645	20,526 32
Holmes	493,880	6,116 74	Vinton	283,632	4,744 09
Huron	1,624,099	21,601 01	Warren	937,625	9,756 77
Jackson	313,952	5,704 38	Washington	433,978	6,048 69
Jefferson	1,681,020	15,923 39	Wayne	1,804,832	20,117 55
Knox	473,818	4,822 61	Williams	752,097	10,320 16
Lake	1,177,868	12,328 03	Wood	1,319,930	26,390 57
Lawrence	152,659	2,513 62	Wyandot	1,243,900	16,914 63
Totals				76,113,501	\$1,128,116 81

* For railroad mortgages and cancellations see conveyance statistics.

† No railroads.

TABLE SHOWING THE VALUATIONS OF PROPERTY OF THE VARIOUS RAILROAD COMPANIES IN THE STATE OF OHIO, AS FIXED BY THE LOCAL
BOARDS FOR THE YEAR 1878, WITH ADDITIONS, DEDUCTIONS, AND TOTAL VALUES, AS FIXED BY THE STATE BOARD OF EQUALIZATION.*

Names of railroads.	Valuations as fixed by State Board, 1877.	Valuations as fixed by County Boards, 1878.	Additions.	Deductions.	Valuations as fixed by State Board, 1878.
Ashtabula, Youngstown and Pittsburgh	\$761,150 00	\$679,910 00	.....	.....	\$679,910 00
Atlantic and Great Western	3,304,164 00	3,173,118 00	.....	.....	3,173,118 00
“ “ Agent U. S. Rolling Stock Co.	2 3,621 00	176,073 00	.....	.....	176,073 00
“ “ C. & M. V. Div.	1,730,456 00	1,715,224 00	.....	.....	1,715,224 00
“ “ “ Agt. U. S. R. S. Co.	200,266 00	189,070 00	.....	.....	189,070 00
Baltimore and Ohio—Central Ohio Division	1,844,229 00	1,774,095 00	a \$150,230 00	b \$32,480 00	1,897,845 00
“ “ Lake Erie	1,369,110 00	1,261,497 00	c 232,500 00	.....	1,493,997 00
“ “ Straitsville	410,149 00	373,050 00	.....	.....	373,050 00
“ “ Washington	15,516 12	15,516 12	.....	.....	15,516 12
Baltimore and Ohio and Chicago	1,225,098 00	1,101,016 31	d 275,775 00	.....	1,376,791 31
Bellaire and St. Clairsville—Narrow Gauge	12,000 00	12,765 00	.....	.....	12,765 00
Bellaire and Southwestern— “ “ .....	.....	6,810 00	.....	.....	6,810 00
Bowling Green	4,000 00	8,000 00	.....	.....	8,000 00
Bridgeport, Canton and Painesville .....	.....	12,500 00	.....	.....	12,500 00
Brown, Bonnell & Co	3,000 00	3,000 00	.....	.....	3,000 00
Brooks' Switch	4,832 00	4,062 00	.....	.....	4,062 00
Cincinnati, Hamilton and Dayton	2,379,013 00	1,646,669 78	.....	.....	1,646,669 78
“ “ Indiana	728,284 00	368,696 00	.....	.....	368,696 00
“ “ Richmond and Chicago	329,701 00	350,193 14	.....	.....	350,193 14
“ “ Hamilton and Indianapolis	209,642 00	202,788 00	.....	.....	202,788 00
“ “ Sandusky and Cleveland	1,373,923 00	1,454,693 00	.....	.....	1,454,693 00
“ “ and Springfield	1,647,522 00	1,607,959 00	.....	.....	1,607,959 00
“ “ and Whitewater Valley	14,715 00	.....	.....	.....	.....
“ “ and Eastern—Narrow Gauge	108,902 00	150,705 00	.....	.....	150,705 00
“ “ and College Hill— “ “	15,087 00	18,092 00	.....	.....	18,092 00
“ “ and Westwood— “ “	28,414 00	19,793 00	.....	.....	19,793 00
“ “ Inclined Plane	49,690 00	52,023 00	.....	.....	52,023 00
“ “ and Clifton Inclined Plane	42,104 00	41,027 00	.....	.....	41,027 00
“ “ Southern .....	.....	.....	.....	.....	.....

Cleveland, Mt. Vernon and Columbus.....	1,023,018 00	951,140 00	152,182 00	1,103,322 00
“ and Newburgh.....	9,360 00			
“ and Pittsburgh.....	6,301,293 00	5,731,765 00		5,731,765 00
“ Tuscarawas Valley and Wheeling.....	1,063,958 00	911,047 00		911,047 00
Columbus and Hocking Valley.....	1,848,793 00	1,797,147 00		1,797,147 00
“ Springfield and Cincinnati.....	529,127 50	516,124 10		516,124 10
“ and Toledo.....	845,952 00	1,262,626 00		1,262,626 00
“ Washington and Cincinnati.....		30,860 00		30,860 00
Dayton and Michigan.....	2,498,997 00	2,356,070 00		2,356,070 00
“ and Union.....	318,645 00	296,216 00		296,216 00
“ and Southeastern Narrow Gauge.....	165,300 00	208,674 00		208,674 00
Eastern Ohio.....	13,360 00	10,400 00		10,400 00
Gallipolis and Columbus.....		2,500 00		2,500 00
Harrison Branch.....	23,146 00	14,244 00		14,244 00
Hayden's Switch.....	54,570 00	55,609 00		55,609 00
Hazleton and Leetonia.....	11,390 00	10,000 00		10,000 00
Iron.....	163,775 00	141,202 00		141,202 00
Lake Erie, Alliance and Wheeling.....	27,360 00	24,300 00		24,300 00
“ and Louisville.....	282,432 00	310,850 00		310,850 00
Lake Shore and Michigan Southern.....	13,333,077 00	13,114,641 00	118,032 00	12,996,609 00
Lake View and Collamer.....	20,235 00	18,212 00		18,212 00
Mahoning Coal.....	360,768 00	354,905 00		354,905 00
Manassah, Coldwater and Lake Michigan.....	338,840 00			
Marietta and Cincinnati.....	3,245,471 00			
“ Pittsburgh and Cleveland.....	296,572 00			
Miami Valley Narrow Gauge.....				
Mt. Adams and Eden Park Inclined.....	44,270 00	2,816,916 00		2,816,916 00
Northwestern Ohio.....	276,955 00	232,525 00		232,525 00
Ohio Central.....	75,200 00	8,200 00		8,200 00
“ and Mississippi.....	613,415 00	44,270 00		44,270 00
“ and Toledo.....	12,000 00	536,740 00		536,740 00
Packard Coal Company.....	277,935 00	73,200 00		73,200 00
Painesville and Youngstown.....		240,942 00		240,942 00
Paulding and Cecil.....		25,565 00		25,565 00
Pittsburgh, Cincinnati and St. Louis.....		800 00		800 00
“ “ “ (Little Miami Division).....	2,653,435 00	175,779 00		175,779 00
“ “ “ (Col. Chi & Ind. Cen. Div.).....	3,577,772 00	5,000 00	221,550 00	5,000 00
“ “ “ (Cin. & Musk. Val. Div.).....	2,469,351 00	2,497,551 00		2,719,101 00
Pittsburgh, Fort Wayne and Chicago.....	1,043,534 00	3,131,020 00		3,131,020 00
Powers Coal Company.....	10,418,179 00	2,243,992 00		2,243,992 00
A. and W. Powers.....	3,000 00	997,734 00	74,225 00	1,071,959 00
Price's Inclined Plane.....	50,760 00	11,539,786 00		10,732,001 00
		2,500 00		2,500 00
		3,000 00		3,000 00
		33,255 00		33,255 00

VALUATIONS OF PROPERTY OF RAILROAD COMPANIES IN OHIO, ETC.—Continued.

Names of railroads.	Valuations as fixed by State Board, 1877.	Valuations as fixed by County Boards, 1878.	Additions.	Deductions.	Valuations as fixed by State Board, 1878.
Pullman Palace Car Company, on A. and G. W.	\$9,324 00	\$9,324 00	.....	.....	\$9,324 00
" " on Cincinnati and Indiana	4,610 00	.....	.....	.....	.....
" " on M. and C.	44,230 00	.....	.....	.....	.....
" " Dayton and Michigan, Agent..	7,378 00	7,378 00	.....	.....	7,398 00
" " Little Miami.....	.....	16,519 00	.....	.....	16,519 00
Rocky River	16,500 00	14,850 00	.....	.....	14,850 00
Salineville Branch.....	15,000 00	15,000 00	.....	.....	15,000 00
Scioto Valley.....	309,573 00	699,913 00	.....	.....	699,913 00
Springfield, Jackson, and Pomeroy.....	.....	281,695 00	.....	.....	281,695 00
Thomas Iron Works.....	1,420 00	1,420 00	.....	.....	1,420 00
Toledo, Canada Southern, and Detroit.....	49,850 00	49,850 00	.....	.....	49,850 00
" " and State Line	20,850 00	20,850 00	.....	.....	20,850 00
" " Delphos, and Indianapolis .....	.....	14,100 00	.....	.....	14,100 00
" " and Woodville.....	.....	154,402 00	.....	.....	154,402 00
" " and Ann Arbor .....	.....	3,000 00	.....	.....	3,000 00
Wabash	1,089,223 00	1,089,224 00	.....	.....	1,089,224 00
Wheeling and Lake Erie.....	.....	14,983 00	.....	.....	14,983 00
Youngstown	4,000 00	3,500 00	.....	.....	3,500 00
" " and Canfield Switch.....	15,000 00	.....	.....	.....	.....
" " and Austintown.....	6,000 00	5,000 00	.....	.....	5,000 00
Totals	\$83,264,800 12	\$79,337,311 00	\$1,112,462	\$1,111,587	\$79,338,186 45

a \$1,500 per mile added from Bellaire to Newark, \$156,230.

b \$1,000 " deducted from Columbus to Newark, \$32,480,

c \$2,000 " added, \$232,500.

d \$2,500 " " \$275 775.

e 2 per cent. on total value deducted, \$153,290.

f 16 " " added, \$152,182.

g 9-10 of 1 per cent. deducted, \$118,032.

h \$1,000 per mile from Columbus to Newark and \$1,500 per mile from Newark to Steubenville added, \$221,550.

i 500 per mile added, \$74,225.

j 7 per cent deducted, \$707,785.

RAILROAD STATISTICS.—Continued.

THE RAILROADS OF OHIO.

(Prepared for the Annual Report of the Secretary of State.)

BY C. T. FLOWERS.

The following items are compiled from the annual returns made by the railway companies in the State to the Railroad Commissioner, for the year ending June 30, 1878:

Increase in length of completed main track, miles.....	263.39
Length of main line and branches, miles.....	4,977.19
Length of sidings and other tracks, miles.....	1,277.34
Total of track laid with rail in Ohio, miles.....	6,264.53
Amount of capital stock paid in.....	\$157,112,433.61
Amount of funded and other debt.....	\$173,130,592.74
Total of stock and debt.....	\$330,243,031.35
Number of passengers carried.....	16,816,067
Tons of freight carried.....	31,924,747
Gross earnings.....	\$32,277,856.02
Net earnings (less \$15,192.12 loss upon four roads).....	\$10,521,941.13
Killed—Passengers.....	6
Employees.....	63
Others.....	125
	194
Injured—Passengers.....	26
Employees.....	237
Others.....	104
	367

RAILWAY MILEAGE EACH YEAR FROM 1841 TO 1878, INCLUSIVE.

1841.....	36	1860.....	2,974
1842.....	84	1861.....	3,024
1843.....	84	1862.....	3,024
1844.....	84	1863.....	3,051
1845.....	84	1864.....	3,051
1846.....	84	1865.....	3,176
1847.....	129	1866.....	3,197
1848.....	274	1867*.....	3,214
1849.....	274	1868.....	3,255.92
1850.....	299	1869.....	3,324.02
1851.....	572	1870.....	3,374
1852.....	890	1871.....	3,457.61
1853.....	1,385	1872.....	3,786.61
1854.....	1,500	1873.....	4,162.97
1855.....	1,641	1874.....	4,374.44
1856.....	1,869	1875.....	4,460.93
1857.....	1,880	1876.....	4,458.98
1858.....	2,788	1877.....	4,714.80
1859.....	2,897	1878.....	4,967.19

* From 1867, each year ends June 30.

The increase of completed main track within the State was the—

	MIL
Bellaire and South Western Railway	*10
Cincinnati and Eastern Railway.....	*20.
Cincinnati and Portsmouth Railroad.....	*20.
Columbus and Hocking Valley Railroad	12.
Columbus, Washington and Cincinnati Railway.....	*23.
Dayton and South Eastern Railroad	*20.
Lake Erie, Alliance and Wheeling Railroad	*4
Lake Erie and Louisville Railroad.....	20.
Painesville, Canton and Bridgeport Narrow-Gauge Railroad.....	*5
Paulding and Cecil Railroad.....	*6.
Pittsburgh, Cincinnati and St. Louis Railway.....	.8
Scioto Valley Railway.....	49.
Springfield, Jackson and Pomeroy Railroad	*85
Toledo, Delphos and Indianapolis Railway	*16
Toledo and Grand Rapids Railroad	*6
Less—Cleveland, Mt. Vernon and Delaware Railroad (rail taken up).....	1.5
Mansfield, Coldwater and Michigan Railroad (rail taken up).....	27.2
Marietta, Pittsburg and Cleveland Railway (reported less).....	.8
Ohio and Toledo Railroad (reported less).....	.9
Toledo and Woodville Railroad (reported less).....	1.1
Balance of corrections made.....	.0

Net gain.....

* 36-inch gauge.

TABLE SHOWING THE LENGTH, STOCK, AND DEBT OF EACH RAILROAD IN OHIO, JUNE 30, 1878, WITH THE TRAFFIC THEREON, FROM ANNUAL REPORTS MADE TO THE RAILROAD COMMISSIONER.

Company.	Miles of track laid.		Capital stock paid in.	Funded and other debt. (a)	For the year ending June 30, 1878.			
	Main line and branches.	Sidings and other tracks.			Passengers carried. (b)	Tons freight carried. (b)	Gross earnings.	Net earnings.
Ashtabula, Youngstown and Pittsburgh Railroad.....	62.60	6.08	\$1,842,880 00	\$2,196,428 24	(i) 58,207	370,205	\$247,895 61	\$96,792 60
Atlantic and Great Western Railroad.....	247.82	60.41	20,311,428 23	36,243,710 04	691,462	2,498,665	2,524,546 40	560,005 35
Baltimore and Ohio and Chicago Railroad.....	110.31	17.32	631,551 22	4,649,784 70	40,757	454,563	418,749 53	158,064 31
Baltimore Short Line Railway.....	30.33	6.30	1,243,440 00	250,098 81	(j)			
Bellaire and South Western Railway (c).....	(e) 10.	.50	152,332 00	100,350 00	(h)			
Bowling Green Railroad (d).....	5.50				11,000	6,240	6,129 00	2,582 00
Central Ohio Railroad.....	137.29	36.61	2,858,550 00	2,500,000 00	273,085	642,710	607,723 16	255,316 17
Chicago and Canada Southern Railway.....	4.50	.30	177,563 61	290,907 92	61,127	82,220	4,546 75	(q)
Cincinnati and Baltimore Railway.....	5.20	11.85	1,247,455 00	501,000 00	(j)			
Cincinnati and Eastern Railway (c).....	58.04	1.64	195,439 75	229,440 95	73,718	18,937	57,529 42	27,223 82
Cincinnati, Hamilton and Dayton Railroad.....	59.93	39.72	3,500,000 00	6,680,562 79	950,520	759,569	935,497 82	331,965 86
Cincinnati, Hamilton and Indianapolis Railroad.....	19.	1.60		649,678 53	152,052	210,223	69,978 71	22,955 04
Cincinnati and Indiana Railroad.....	20.50	10.54	43,350 00	2,324,428 70	549,587	457,155	150,343 31	56,778 44
Cincinnati and Muskingum Valley Railway.....	142.45	13.47	3,397,310 00	2,007,352 64	186,017	247,985	352,244 69	24,306 31
Cincinnati and Portsmouth Railroad (c).....	(e) 20.60	1.10	83,619 42	146,258 68	10,264	447	5,088 13	942 44
Cincinnati and Richmond and Chicago Railroad.....	36.00	2.40	342,600 00	625,000 00	83,175	146,371	168,127 56	66,822 12
Cincinnati, Sandusky and Cleveland Railroad.....	169.76	15.96	4,434,747 45	2,658,477 41	263,431	364,976	647,201 65	112,244 46
Cincinnati and Springfield Railway.....	48.05	12.01	1,100,000 00	3,992,841 62	254,672	524,647	691,751 54	192,224 65
Cleveland, Columbus, Cincinnati and Indianapolis R'y.....	306.60	94.21	11,749,719 16	4,755,911 75	703,165	1,731,973	2,696,142 29	412,524 33
Cleveland and Mahoning Valley Railway.....	123.35	94.47	2,759,810 00	1,967,600 00	(k) 53,092	(k) 524,032	(k) 142,746 47	26,733 29
Cleveland, Mt. Vernon and Delaware Railroad.....	144.04	19.10	1,764,253 34	3,547,519 10	252,153	251,944	322,557 18	84,248 26
Cleveland and Newburgh Railroad (d).....	3.33		42,490 00	46,725 55	(h)			
Cleveland and Pittsburgh Railroad.....	194.77	56	10,399,571 33	4,694,255 53	571,664	1,409,767	1,940,579 19	925,542 49
Cleveland, Tuscarawas Valley and Wheeling Railway.....	101.14	35.29	1,055,920 00	3,649,207 60	132,725	512,741	473,124 41	141,723 92
Columbus, Chicago and Indiana Central Railway.....	135.90	26.10	3,270,455 24	5,441,049 03	682,446	1,624,632	798,421 15	112,004 76
Columbus and Hocking Valley Railway.....	100.50	28.50	2,030,150 00	2,515,341 34	141,633	972,115	865,926 40	364,628 31
Columbus, Springfield and Cincinnati Railroad.....	44.37	2.25	1,000,000 00	1,070,210 10	(l)			
Columbus and Toledo Railroad.....	117.77	13.32	442,441 15	2,546,011 05	151,921	279,240	434,209 72	167,618 34
Columbus, Washington and Cincinnati Railway (c).....	23.33	23	67,300 00	114,722 65	2,408	7,444	9,116 64	(r)
Columbus and Xenia Railroad.....	54.74	9.94	1,746,910 00	302,000 00	(m)			
Dayton and Michigan Railroad.....	140.71	29.33	3,667,627 70	3,176,319 03	309,674	422,303	851,019 79	282,066 39

TABLE SHOWING THE LENGTH, STOCK, AND DEBT OF EACH RAILROAD IN OHIO, JUNE 30, 1878, WITH THE TRAFFIC THEREON, FROM ANNUAL REPORTS TO THE RAILROAD COMMISSIONER—Continued.

Names.	Miles of track laid.		Capital stock paid in.	Funded and other debt. (a)	For the year ending June 30, 1878.			
	Main line and branches.	Sidings and other tracks.			Passengers carried. (b)	Tons freight carried. (b)	Gross earnings.	Net earnings.
Dayton and South-Eastern Railroad (c)	(c) 68.80	2.40	\$481,256 09	\$509,124 88	57,313	.....	\$63,357 31	\$9,780 06
Dayton and Union Railroad	31.74	1.79	86,300 00	491,627 44	73,094	56,822	107,010 48	38,990 10
Dayton and Western Railroad	36.	2.75	.....	535,000 00	(m)	.....	.....	.....
Eastern Ohio Railroad	(e) 7.75	.05	.....	.....	(h)	.....	.....	.....
Harrison Branch Railroad	7.40	.10	200,000 00	.....	.....	.....	.....	.....
Iron Railroad	16.50	2.75	303,100 00	.....	15,490	100,524	55,710 72	17,669 13
Lake Erie, Alliance and Wheeling Railroad (c)	(e) 23.30	1.	233,464 17	413,987 69	(h)	.....	.....	.....
Lake Erie and Louisville Railroad	(e) 107.83	6.44	1,500,000 00	198,205 25	92,106	60,553	129,420 71	20,533 96
Lake Shore and Michigan Southern Railway	377.61	329.54	18,425,703 57	13,735,991 69	2,776,960	5,598,426	4,859,569 14	1,986,978 47
Lake View and Collamer Railroad (d)	7.65	.....	62,850 00	63,492 75	(h)	.....	.....	.....
Lawrence Railroad	12.68	1.07	258,492 83	170,194 66	48,253	615,013	108,923 35	60,044 36
Little Miami Railroad	99.98	41.14	4,636,000 00	1,592,000 00	899,412	587,022	1,245,661 44	295,848 69
Mahoning Coal Railroad	42.99	5.40	1,373,000 00	1,644,647 07	(n)	.....	.....	.....
Marietta and Cincinnati Railroad	275.90	49.90	14,000,000 00	18,336,813 58	701,122	716,627	1,545,783 15	266,920 03
Marietta, Pittsburgh and Cleveland Railway	99.69	5.49	.....	3,546,289 34	74,140	45,113	110,777 48	9,467 50
Massillon and Cleveland Railroad	12.23	2.07	196,200 00	100,000 00	(o)	.....	.....	.....
Newark, Somerset and Straitsville Railroad	44.	4.11	973,450 00	1,007,451 52	39,659	234,331	141,771 72	16,833 74
North-Western Ohio Railway	61.67	3.69	1,900,350 00	.....	57,845	139,989	104,420 88	28,934 57
Ohio Central Railway	(e) 35.30	.50	1,122,430 12	269,567 86	(h)	.....	.....	.....
Ohio and Mississippi Railway	19.53	7.19	763,099 01	434,409 11	728,776	1,113,221	96,515 31	24,325 01
Ohio and Toledo Railroad (c)	(e) 22.50	.25	160,000 00	481,020 53	12,592	2,260	.....	.....
Painesville, Canton and Bridgeport N. G. Railroad (c)	(e) 5	.....	60,650 00	.....	(h)	.....	.....	.....
Painesville and Youngstown Railroad (c)	61.80	6.61	2,000,000 00	1,657,727 65	42,040	26,162	44,681 10	(s)
Paulding and Cecil Railroad (c)	(e) 6.70	.....	17,000 00	19,500 00	(h)	.....	.....	.....
Pittsburgh, Cincinnati and St. Louis Railway	158.71	41.29	6,695,340 06	9,922,025 45	737,131	1,847,353	2,477,759 67	990,434 23
Pittsburgh, Ft. Wayne and Chicago Railway	251.65	61.91	13,640,518 68	7,259,944 94	2,150,900	2,850,102	3,939,368 51	1,778,570 16
Rocky River Railroad	5.53	.36	75,862 75	35,896 75	108,617	.....	10,861 70	3,896 41
Sandusky, Man-field and Newark Railroad	116.25	20.58	1,066,435 00	2,301,000 00	186,844	657,236	677,308 06	262,891 30
Scioto Valley Railway	96.20	7.13	1,616,400 00	1,244,500 00	114,529	98,382	198,018 04	106,640 25
Springfield, Jackson and Pomeroy Railroad (c)	(e) 85.	.50	575,203 26	516,537 21	(h)	.....	.....	.....
Toledo, Canada Southern and Detroit Railway	7.14	3.29	202,758 00	301,291 43	187,990	913,275	38,453 68	(t)

Toledo, Delphos and Indianapolis Railway (c)	(e) 16.	1.	79,198 92	339,457 60	(A)	(A)	9,701 24	4,139 33
Toledo and Grand Rapids Railroad (c)	6.	.....	31,000 00	90,000 00	(P)	.....	.....	.....
Toledo and Maumee Narrow Gauge Railroad (c)	8.	.50	41,200 00	17,738 98	46,277	1,400	10,333 85	933 14
Toledo and State Line Railroad	4.17	.....	160,000 00	.....	.....	.....	.....	.....
Toledo and Woodville Railroad	17.46	3.21	.....	(g) 425,000 00	29,386	119,838	58,595 63	7,120 58
Wabash Railway	75 50	24.66	1,984,536 76	2,538,715 85	906 896	1,594,170	518,425 28	148,708 57
Wheeling and Lake Erie Railroad (c)	(e) 12.50	.....	172,497 00	258,000 00	(A)	.....	.....	.....
Totals	(f) 4,987.19	(f) 1,277.34	\$157,112,438 61	\$173,130,592 74	16,816,067	31,924,747	\$32,277,856 02	\$10,537,133 25

(a) Net means available to payment deducted.

(b) On entire lines.

(c) Thirty-six inch gauge.

(d) Suburban road.

(e) Not completed.

(f) 32 52 miles of main line and 12.46 of side track between Columbus and Newark, owned jointly by Central Ohio and Pittsburgh, Cincinnati and St. Louis, and counted in both lines, deducted.

(g) Bonds issued by the city of Toledo.

(A) Not reported.

(i) The traffic, earnings, etc., upon main line Cleveland and Mahoning Valley Railway—80 miles—included.

(j) Included in Marietta and Cincinnati.

(k) Company operates its New Lisbon and Vienna branches only.

(l) Operated by the Cincinnati, Sandusky and Cleveland.

(m) Included in the Little Miami Division Pittsburgh, Cincinnati and St. Louis.

(n) Operated by the Lake Shore and Michigan Southern.

(o) Operated by the Cleveland, Mt. Vernon and Delaware.

(p) Operated by the Toledo and Maumee Narrow Gauge.

Deductions—(q) \$281.30; (r) \$1,032.36; (s) \$3,653.76; (t) \$10,318.70; total, \$15,192.12.

TURNPIKES AND PLANK ROADS.

TABLE SHOWING THE NUMBER, LENGTH, AND COST OF TURNPIKES AND PLANK IN OHIO, AS REPORTED BY COUNTY AUDITORS.

Counties.	Turnpikes incorporated.			Plank roads incor- porated.			Free turnpikes and free plank roads.			
	Number.	Miles built within the year.	Total length—miles. Cost.	Number	Miles built within the year	Total length—miles. Cost.	Number	Miles built within the year.	Total length—miles. Cost.	
Adams	2		38 \$187,000				10	60	\$258,000	
Auglaize	1		54 10,000	1	10	\$14,000	2	22	92,600	
Belmont	4		30 267,000				4	40	250,000	
Brown	5		314 93,750				21	141	500,000	
Butler	16		142 †				27	15	145	
Champaign	2		17 12,600			†	24	357	582,050	
Clarke	21		176 432,400				10	40	83,000	
Clermont	7		23 328,000				11	55	275,000	
Clinton	2		23 230,000				70	25	305	
Cuyahoga	2			1	94	94 8,662				
Darke	2		12 15,000				119	4	608	
Delaware	1		12 30,000				15	3	80	
Erie	1		6 †							
Fairfield	4		64 178,000				4	30	78,000	
Fayette							33	7	263	
Franklin	6		90 †				15	15	60	
Greene	4		39 †				24	163	†	
Hamilton	13		139 †							
Hardin							23	15	200	
Harrison							1			
Hightland							16		1364	
Hocking	1		4 2,000							
Jefferson							1	2	5,960	
Legan							43	10	240	
Madison	3		30 90,000				29	219	438,000	
Marion	2		15 31,867				14	104	484	
Mercer							1	6	12,000	
Miami	5		25 32,500				25	25	395	
Morrow	1		11 18,000				1	2	3,600	
Muskingum	1		13 †				1		†	
Noble	1		13 110,000							
Paulding							1	7	3,500	
Pickaway	11		103 †				14	113	222,500	
Pike	3		37 37,000							
Preble	3		32 †				9	65	130,000	
Ross	10		106 265,000				4	37	75,000	
Sandusky							4	234	71,275	
Scioto	1		16 50,000				15	151	450,000	
Shelby							56	1	289	
Union							†	300	700,000	
Warren	6		39 11,700				115	4	5034	
Wood							73	34	270	
Totals	146	1,3464	\$2,427,817	2	94	194	\$22,662	273	5,431	\$9,812,818

* Free plank roads.

† Cost not reported.

‡ Number not report

CONVEYANCE STATISTICS,

AS

REPORTED BY COUNTY RECORDERS.

TABLE SHOWING THE NUMBER OF "ONE DOLLAR CONSIDERATION SALES," TOTAL NUMBER OF DEEDS RECORDED, AND TOTAL CONSIDERATION IN EACH COUNTY AS REPORTED BY THE COUNTY RECORDER FOR THE YEAR ENDING JUNE 30

Counties.	Number of deeds recorded for all one dollar consideration sales.	Total number of deeds recorded.
Adams.....	16	606
Allen.....		789
Ashtabula.....	12	595
Ashland.....	65	1,312
Athens.....	26	1,048
Auglaize.....	28	705
Belmont.....	37	866
Brown.....	68	711
Butler.....	109	1,052
Carroll.....	12	*
Champaign.....	76	896
Clarke.....	94	995
Clermont.....	40	610
Clinton.....	9	690
Columbiana.....	30	1,173
Coshocton.....	24	616
Crawford.....		837
Cuyahoga.....	708	4,542
Darke.....	43	1,360
Defiance.....		781
Delaware.....	33	757
Errie.....	111	654
Fairfield.....	33	595
Fayette.....	25	513
Franklin.....	195	2,011
Fulton.....		628
Gallia.....	47	621
Geauga.....	24	464
Greene.....	26	691
Guernsey.....	20	836
Hamilton.....	†	4,351
Hancock.....	14	990
Hardin.....		913
Harrison.....	8	430
Henry.....		433
Highland.....	16	564
Hooking.....	17	410
Holmes.....	5	522
Huron.....	112	966
Jackson.....	45	500
Jefferson.....	50	800
Knox.....	52	924
Lake.....	34	493
Lawrence.....	74	611
Licking.....	42	664
Logan.....		674
Lorain.....	64	1,061
Lucas.....	331	1,921
Madison.....	50	496

TABLE SHOWING THE NUMBER OF "ONE DOLLAR CONSIDERATION SALES," ETC.—Continued.

Counties.	Number of deeds recorded for all one dollar consideration sales.	Total number of deeds recorded.	Total consideration.
Mahoning	63	907	1,256,072
Marion	153	720	1,040,913
Medina	104	609	832,260
Meigs	12	270	450,678
Mercer .....	.....	528	510,453
Miami .....	.....	1,309	725,298
Monroe	9	601	103,641
Montgomery	124	1,404	2,000,455
Morgau	13	534	554,664
Morrow	7	525	1,420,320
Muskingum	113	910	1,178,108
Noble .....	.....	398	490,541
Ottawa	37	614	625,991
Paulding	34	735	506,354
Perry	30	654	1,207,307
Pickaway	44	567	925,021
Pike	17	364	256,026
Portage	15	907	1,174,295
Preble	37	643	821,046
Putnam	42	779	705,196
Richland	15	955	2,271,475
Ross .....	.....	775	1,447,250
Sandusky .....	.....	844	764,192
Scioto	49	762	715,123
Seneca	23	1,069	2,577,009
Shelby	15	616	734,159
Stark	75	1,038	3,192,404
Summit	65	1082	1,485,286
Trembail	125	1,025	1,232,197
Tuscarawas	39	1,032	1,654,635
Union	45	821	1,065,223
Van Wert	4	638	484,332
Vinton	18	486	411,841
Warren	42	624	1,106,919
Washington .....	.....	603	531,587
Wayne	36	967	1,199,077
Williams .....	.....	607	716,054
Wood	32	1,225	1,356,522
Wyandot	23	574	1,040,441
Totals	\$4,285	\$77,289	\$110,624,309

* Total number not reported.

† Not reported.

TABLE EXHIBITING THE NUMBER OF ACRES CONVEYED, AND TOTAL CONSIDERATION IN EACH COUNTY OF OHIO, FOR SALES OF LANDS, AS REPORTED BY COUNTY RECORDERS FOR THE YEAR ENDING JUNE 30, 1878.*

Counties.	Sales of lands.			Sales of town acres, or lands within corporate limits, valued by the acre.		
	Number of acres.	Average price per acre.	Amount of consideration.	Number of acres.	Average price per acre.	Amount of consideration.
Adams.....	55,680	\$10	\$556,800			
Allen.....	17,284	29	500,650	106	\$64	\$6,912
Ashland.....	16,503	53	\$74,513			
Ashtabula.....	33,520	30	1,005,600			
Athens.....	27,810	23	639,630			
Auglaize.....	8,160	38	310,080	91	93	8,463
Belmont.....	12,612	43	546,869	†	†	243,818
Brown.....	18,069	28	509,790			
Butler.....	16,789	73	1,217,065			
Carroll.....	13,530	41	555,919	2	100	200
Champaign.....	14,028	54	768,930			
Clarke.....	11,969	58	692,021	92	552	50,958
Clermont.....	15,000	30	450,000			
Clinton.....	19,500	40	780,000	1,000	100	100,000
Columbiana.....	21,462	45	1,025,970	93	342	31,767
Coshocton.....	24,641	30	748,861			
Crawford.....	4,700	77	361,900	20	200	4,000
Cuyahoga.....	13,270	72	952,744	1,068	935	992,756
Darke.....	28,540	37	1,068,412			
Deafence.....	28,521	20	576,240			
Delaware.....	15,765	50	789,689			
Erie.....	6,343	78	493,883	145	346	40,180
Fairfield.....	17,304	41	720,829	5	1,200	6,000
Fayette.....	24,205	43	1,046,072	6	867	5,200
Franklin.....	15,809	66	1,038,738			
Fulton.....	22,500	35	787,500	3	150	450
Gallia.....	17,575	18	323,297	65	171	11,123
Geauga.....	14,340	40	569,347	30	227	6,810
Greene.....	16,831	42	702,694	43	3,736	160,648
Guernsey.....	21,565	26	550,504			
Hamilton.....	11,961	86	1,031,889	1,098	803	991,261
Hancock.....	30,940	37	1,138,171	28	1,309	36,661
Hardin.....	34,855	25	870,375			
Harrison.....	7,872	43	340,621	84	525	44,100
Henry.....	22,056	31	683,736			
Highland.....	16,890	34	567,560			
Hocking.....	20,642	24	505,497	6	503	3,020
Holmes.....	22,500	35	742,000	14	70	980
Huron.....	17,840	48	860,224	72	657	47,273
Jackson.....	15,877	15	245,225			
Jefferson.....	15,500	35	534,750			
Knox.....	13,020	54	701,245			
Lake.....	9,978	55	545,831	172	335	57,660
Lawrence.....	14,400	16	228,000			
Licking.....	19,561	56	1,095,416	20	300	6,000
Logan.....	17,757	40	704,350			
Lorain.....	7,529	\$ 95	719,219			
Lucas.....	10,576	60	631,791	75	1,152	86,417
Madison.....	17,512	49	863,632	97	465	45,146
Mahoning.....	12,331	46	554,999	183	570	236,448
Marion.....	16,738	45	755,771	82	679	55,645
Medina.....	20,875	38	792,250	45	†	†

TABLE EXHIBITING THE NUMBER OF ACRES CONVEYED, ETC.—Continued.

Counties.	Sales of lands.			Sales of town acres, or lands within corporate limits, valued by the acre.		
	Number of acres.	Average price per acre.	Amount of consideration.	Number of acres.	Average price per acre.	Amount of consideration.
Meigs	6,125	\$24	\$147,795	■	\$360	\$54,000
Mercer	2,869	17	48,860	.....	.....	.....
Miami	13,487	54	728,238	.....	.....	.....
Monroe	21,224	23	494,945	69	230	17,256
Montgomery	18,570	63	1,182,603	32	1,831	58,616
Morgan	18,970	26	490,940	.....	.....	.....
Morrow	15,908	58	916,581	.....	.....	.....
Muskingum	24,865	31	750,270	100	278	27,800
Noble	14,754	30	436,610	.....	.....	.....
Ottawa	14,475	33	479,447	■	155	5,115
Paulding	61,926	9	567,334	82	110	9,020
Perry	48,886	23	1,135,082	68	444	30,217
Pickaway	15,844	48	766,959	45	516	23,262
Pike	21,052	11	227,167	.....	.....	.....
Portage	17,400	53	915,440	55	410	22,566
Preble	19,097	34	655,575	.....	.....	.....
Putnam	14,486	33	478,032	†	1	26,427
Richland	32,240	56	1,806,440	60	300	18,000
Ross	48,700	25	1,212,630	.....	.....	.....
Sandusky	10,286	62	634,162	31	150	4,650
Scioto	41,614	§ 6	229,360	.....	.....	.....
Seneca	34,639	62	2,154,937	24	226	5,414
Shelby	18,983	30	569,747	17	324	5,511
Stark	26,973	70	1,886,610	15	500	7,500
Summit	16,215	58	948,372	92	1,124	103,450
Trumbull	21,449	38	835,324	252	60	15,262
Tuscarawas	31,261	■	1,187,918	312	305	95,160
Union	24,018	38	906,323	15	814	12,212
Van Wert	14,123	27	386,127	30	228	6,840
Vinton	25,752	■	364,007	.....	.....	.....
Warren	18,206	■	697,594	7	898	6,713
Washington	28,959	■	531,587	.....	.....	.....
Wayne	21,270	61	1,303,730	.....	.....	.....
Williams	13,574	38	514,472	265	126	33,440
Wood	21,346	46	1,024,508	120	115	13,800
Wyandot	40,424	33	1,313,780	117	188	21,936
Totals	1,816,676		\$65,744,687	6,732		\$3,904,655

NOTE.—To make this table more convenient for comparisons, all fractional parts of dollars and acres have been omitted, hence the apparent difference, in some instances, between the total number of acres, average price per acre, and the total consideration.

* Fractional parts of acres and dollars omitted.

† Number of acres not reported.

‡ Average price per acre not reported.

§ Probably erroneous, either in average or total consideration.

¶ Amount not reported.

TABLE SHOWING THE NUMBER OF DEEDS RECORDED IN EACH COUNTY FOR CITY, TOWN, AND VILLAGE LOTS, WITH TOTAL CONSIDERATION, ALSO THE OF COMPLICATED CONVEYANCES IN EACH COUNTY WITH TOTAL CONSIDERATION, REPORTED BY COUNTY RECORDERS, FOR THE YEAR ENDING JUNE 30, 1897

Counties.	Sales of city, town, and village lots.		Complicated conveyances.
	Number of deeds.	Total consideration.	Number of deeds.
Adams	142	\$79,310	.....
Allen	365	344,908	.....
Ashland	233	285,571	.....
Ashtabula	434	336,350	.....
Athens	93	39,990	2
Auglaize	433	↑	.....
Belmont	369	371,578	.....
Brown	199	85,857	.....
Butler	535	758,925	.....
Carroll	160	74,528	57
Champaign	396	↑	59
Clarke	511	651,604	31
Clermont	220	220,000	10
Clinton	258	200,000	.....
Columbiana	670	812,710	.....
Coshocton	160	114,697	.....
Crawford	300	240,000	.....
Cuyahoga	3,452	7,547,322	.....
Darke	300	207,192	11
Defiance	177	277,541	.....
Delaware	276	252,450	6
Erie	314	322,676	.....
Fairfield	188	193,221	.....
Fayette	182	284,458	.....
Franklin	1,840	2,296,648	.....
Fulton	135	45,000	.....
Gallia	140	112,073	25
Geauga	15	14,540	.....
Greene	241	189,185	.....
Guernsey	207	126,529	.....
Hamilton	3,550	7,936,236	.....
Hancock	392	462,961	.....
Hardin	399	357,080	.....
Harrison	63	43,391	5
Henry	50	5,000	.....
Highland	103	124,499	.....
Hocking	71	34,569	.....
Holmes	60	6,000	.....
Huron	111	372,118	.....
Jackson	159	106,956	18
Jefferson	350	81,250	.....
Knox	265	224,406	.....
Lake	161	277,456	.....
Lawrence	205	216,499	16
Licking	11	6,000	.....
Logan	209	132,131	.....
Lorain	477	510,229	.....
Lucas	1,245	2,319,794	26
Madison	144	71,230	.....
Mahoning	440	236,448	.....
Marion	261	237,480	9
Medina	40	40,446	.....
Meigs	525	243,271	■

TABLE SHOWING THE NUMBER OF DEEDS RECORDED IN EACH COUNTY FOR SALES OF CITY, TOWN, AND VILLAGE LOTS, ETC.—Continued.

Counties.	Sales of city, town, and village lots.		Complicated conveyances.	
	Number of deeds.	Total consideration.	Number of deeds.	Total consideration.
Mercer	211	\$21,974	.....	.....
Miami	850	†	43	†
Monroe.....	103	62,231	.....	.....
Montgomery	872	1,385,237	.....	.....
Morgan	128	63,495	12	\$230
Morrow	140	573,739	.....	.....
Muskingum	360	400,038	.....	.....
Noble	106	53,721	.....	.....
Ottawa	263	141,392	.....	.....
Paulding	48	†	.....	.....
Perry	231	108,733	7	23,265
Pickaway	135	135,356	.....	.....
Pike	59	29,782	.....	.....
Portage	340	236,275	.....	.....
Preble	276	168,755	.....	.....
Putnam	226	97,611	28	27,164
Richland	300	450,000	.....	.....
Ross	228	224,640	.....	.....
Sandusky	556	125,220	.....	.....
Scioto	312	487,614	1	100
Seneca	278	352,250	13	34,345
Shelby	183	149,052	13	9,855
Stark	1,010	1,358,354	.....	.....
Summit	312	418,655	10	14,752
Trumbull	553	379,000	6	29,710
Tuscarawas	311	326,518	50	25,000
Union	237	146,658	.....	.....
Van Wert	241	91,601	.....	.....
Vinton	76	46,578	20	3,237
Warren	197	178,966	9	23,600
Washington	223	†	.....	.....
Wayne	418	395,347	.....	.....
Williams	282	168,137	.....	.....
Wood	704	335,622	5	2,560
Wyandot.....	279	147,533	45	57,147
Totals.....	33,106	\$39,820,926	540	\$753,082

* Fractional parts of a dollar omitted.
† Amount not reported.

TABLE SHOWING THE NUMBER OF MORTGAGES (OTHER THAN RAILROAD MO
RECORDED AND CANCELED, WITH AMOUNTS SECURED AND RELEASED IN EACH
AS REPORTED BY COUNTY RECORDERS FOR THE YEAR ENDING JUNE 30, 1

Counties.	Number of mortgages recorded.	Amount. secured.	Number Canceled.	A re
	No.	*Amount.	No.	*A
Adams.....	257	\$376,975	129	
Allen.....	367	296,965	270	
Ashland.....	372	488,945	214	
Ashtabula.....	939	732,787	111	
Athens.....	433	247,500	133	
Auglaize.....	456	312,915	396	
Belmont.....	667	690,438	278	
Brown.....	477	334,504	187	
Butler.....	911	1,227,865	1	
Carroll.....	317	347,910	188	
Champaign.....	617	697,934	346	
Clarke.....	881	1,001,932	801	
Clermont.....	460	410,000	250	
Clinton.....	367	380,000	150	
Columbiana.....	774	642,243	532	
Coshocton.....	443	413,911	260	
Crawford.....	539	440,400	245	
Cuyahoga.....	2,922	4,276,072	2,754	
Darke.....	782	601,936	237	
Defiance.....	308	332,494	180	
Delaware.....	541	555,587	393	
Erie.....	578	560,621	383	
Fairfield.....	440	563,334	112	
Fayette.....	345	620,388	19	
Franklin.....	1,465	2,277,950	1,709	
Fulton.....	435	171,375	67	
Gallia.....	300	196,651	188	
Geauga.....	313	290,149	177	
Greene.....	602	723,946	452	
Guernsey.....	286	259,516	167	
Hamilton.....	4,153	7,629,572	2,897	
Hancock.....	543	684,988	250	
Hardin.....	608	605,628	273	
Harrison.....	374	380,970	180	
Henry.....	301	295,840	50	
Highland.....	333	329,053	241	
Hocking.....	197	374,029	189	
Holmes.....	337	77,000	225	
Huron.....	755	631,138	472	
Jackson.....	240	164,297	120	
Jefferson.....	850	695,000	450	
Knox.....	423	495,229	297	
Lake.....	326	389,392	246	
Lawrence.....	331	265,377	150	
Licking.....	488	264,299	237	
Logan.....	418	407,072	326	
Lorain.....	698	878,226	708	
Lucas.....	1,165	2,259,572	837	
Madison.....	365	803,031	172	
Mahoning.....	488	875,065	289	
Marion.....	460	476,499	238	
Medina.....	469	493,639	238	

TABLE SHOWING THE NUMBER OF MORTGAGES, ETC.—Continued.

Counties.	Number of mortgages recorded.	Amount secured.	Number canceled.	Amount released.
	No.	*Amount.	No.	*Amount.
Meigs	325	199,550	140	131,959
Mercer	266	152,737	70	50,140
Miami	893	830,504	412	312,480
Monroe	395	210,398	205	198,152
Montgomery	1,472	2,447,443	1,065	1,798,286
Morgan	237	145,984	151	139,673
Morrow	397	524,595	214	282,483
Muskingum	717	571,397	359	385,073
Noble	285	234,575	151	125,923
Ottawa	314	586,697	246	350,103
Paulding	235	126,095	94	67,676
Perry	310	359,752	147	209,359
Pickaway	449	666,020	301	547,554
Pike	139	107,970	53	28,983
Portage	832	518,984	593	826,516
Preble	435	437,847	190	207,604
Putnam	434	302,072	186	184,965
Richland	639	832,000	278	445,524
Ross	471	617,779	211	303,820
Sandusky	615	360,798	323	253,782
Scioto	585	708,520	301	283,379
Seneca	800	143,538	549	135,025
Shelby	460	395,781	242	245,356
Stark	1,005	1,069,676	830	495,590
Summit	690	801,399	553	836,981
Trumbull	653	653,692	520	446,511
Tuscarawas	618	567,428	411	531,904
Union	407	452,242	110	144,745
Van Wert	255	231,910	259	228,493
Vinton	170	119,856	60	29,405
Warren	539	652,525	360	577,462
Washington	501	312,983	243	211,889
Wayne	699	832,444	379	566,983
Williams	443	322,709	290	233,127
Wood	668	587,117	304	284,628
Wyandot	477	516,263	335	421,453
Totals	92,067	\$58,150,759	32,138	143,329,680

* Fractional parts of a dollar omitted.

† Number not reported.

TABLE SHOWING THE SEVERAL AMOUNTS OF RAILROAD MORTGAGES RECORD
CANCELED IN OHIO, AS REPORTED BY THE RECORDER OF EACH COUNTY, F
YEAR ENDING JUNE 30, 1878.

Name of railroad.	Mortgages.	Cancell
Cincinnati and Portsmouth	\$500,000 00	.....
Cincinnati and Eastern	3,286 00	.....
Cincinnati and Eastern, New Richmond Branch	90,000 00	.....
Cincinnati, Hamilton and Dayton .....	.....	1,000
Cincinnati and Westwood	26,000 00	.....
Cincinnati and Muskingum Valley	1,500,000 00	.....
Cleveland, Tuscarawas Valley and Wheeling	2,000,000 00	.....
Cleveland, Canton, Coshocton and Straitsville	800,000 00	.....
Cleveland, Tuscarawas Valley and Wheeling *	79,920 00	.....
Cleveland and Pittsburgh .....	.....	800
Columbus and Gallipolis	1,500,000 00	.....
Kinsman Street (street railroad)	345,000 00	.....
Marietta and Shawnee	300,000 00	.....
Mt. Adams and Eden Park (incline railway)	150,000 00	.....
Mansfield, Coldwater and Lake Michigan	500,000 00	.....
Marietta and Cincinnati †	7,000,000 00	.....
Pennsylvania Company	7,000,000 00	12,000,
Springfield, Jackson and Pomeroy ‡	1,500,000 00	.....
Sandusky, Mansfield and Newark .....	.....	1,290,
Scioto Valley	2,600,000 00	.....
Toledo, Delphos and Indianapolis	210,350 00	.....
Toledo and Ann Arbor	750,000 00	.....
Wabash	1,026,555 00	.....
Wheeling and Lake Erie (lien)	103,620 00	.....
Waynesville, Port William and Jeffersonville	135,000 00	.....
Youngstown and Conotton Valley (N. G.)	750,000 00	.....
Totals	\$28,869,731 00	\$15,090,

* Chattel mortgage.

† Jackson county reports two mortgages on this road amounting to this sum—reported current year in the other counties through which the road passes.

‡ In Clarke county three mortgages are reported on this road, at a total of \$99 in Fayette, Highland, Meigs, and Vinton counties one mortgage of \$900,000 only in county is reported, and in Vinton county, also, a mechanics' lien of \$175,970.71 ported.

TABLE SHOWING THE NUMBER OF LEASES RECORDED IN EACH COUNTY FOR THE YEAR ENDING JUNE 30, 1878, AS REPORTED BY COUNTY RECORDERS.

Counties.	Leases of lands.		Leases of city, town, and village lots.	
	Number.	Amount of consid- eration.	Number.	Amount of consid- eration.
Adams	4	\$1,245		
Allen	9	474	3	\$254
Ashland	6	5,436	7	2,520
Ashtabula	14	3,086		
Athens	4	493		
Auglaize	14	1,085		
Belmont	7	2,500		
Brown	4	190	14	105
Butler	9	21,961	16	24,222
Carroll	25	↑		
Champaign	6	1,200	5	6,300
Clarke	6	960	9	5,006
Clermont	30	↑		
Clinton	4	10,000		
Columbiana	30	↑		
Coshocton	2	250		
Crawford	10	1,015		
Cuyahoga	24	4,290	140	63,322
Darke	7	1,800	5	1,000
Defiance	12	8,535	3	5,700
Delaware	2	1,200	3	5,060
Erie	20	5,950	10	4,500
Fairfield	2	155	4	3,403
Fayette	7	↑		
Franklin	16	↑	35	↑
Fulton	10	↑		
Gallia				
Genesee	14	661		
Greene	6	2,051	10	11,043
Guernsey	6	3,129	1	1
Hamilton	64	28,349	500	297,279
Hancock	4	820	5	7,270
Hardin	14	↑	10	↑
Harrison				
Henry	10	↑		
Highland	5	650		
Hocking	6	26,409		
Holmes	13	6,500		
Huron	8	↑	10	↑
Jackson	1	325	2	450
Jefferson	3	1,000		
Knox	5	↑	6	13,376
Lake	11	↑	2	↑
Lawrence	4	↑	3	↑
Licking	15	4,187	■	722
Logan				
Lorain	17	7,922	10	6,425
Lucas	6	4,350	22	67,730
Madison	5	7,633	2	↑
Mahoning	15	7,340	5	1,170
Marion	5	435	8	7,500

NUMBER OF LEASES RECORDED IN EACH COUNTY—Continued.

Counties.	Leases of lands.		Leases of cities and villages.	
	Number.	Amount of consolidation.	Number.	
Medina.....	14	\$200	9	
Meigs.....	21	†	9	
Mercer.....	15	500		
Miami.....	4	3,000	10	
Monroe.....			1	
Montgomery.....	10	†	45	
Morgan.....	15	1,712		
Morrow.....	7	314		
Muskingum.....	9	†	5	
Noble.....	7	932	2	
Ottawa.....	11	1,935	40	
Paulding.....	9	†	1	
Perry.....	17	1,200	1	
Pickaway.....	4	860	4	
Pike.....	2	†		
Portage.....	15	1,056		
Preble.....	4	891	5	
Putnam.....	6	†	4	
Richland.....	2	†	3	
Ross.....	5	509	9	
Sandusky.....	12	†	7	
Scioto.....	18	5,618	4	
Seneca.....			9	
Shelby.....	10	†	3	
Stark.....	20	†	25	
Summit.....	27	†	13	
Trumbull.....	8	†	3	
Tuscarawas.....	20	†		
Union.....	2	3,300	1	
Van Wert.....	5	†	3	
Vinton †.....				
Warren.....	3	1,940	4	
Washington.....	22	†	6	
Wayne.....	7	7,061	8	
Williams.....	12	†		
Wood.....	19	772	5	
Wyandot.....	9	3,350	8	
Totals.....	911	\$210,836	1,112	

* Fractions omitted.

† Amount not reported.

‡ None reported.

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AGRICULTURAL
STATISTICS.

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AGRICULTURAL STATISTICS.

TABLES SHOWING THE AGRICULTURAL PRODUCTS OF OHIO, AS REPORTED BY TOWNSHIP ASSESSORS TO COUNTY AUDITORS, IN MAY, 1878.

WHEAT, RYE, AND BUCKWHEAT PRODUCED IN OHIO IN 1877.

Counties.	Wheat.		Rye.		Buckwheat.	
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
Adams.....	14,737	144,526	228	1,497	80	
Allen.....	19,587	337,718	573	9,335	131	
Ashland.....	30,100	503,342	388	4,511	163	
Ashtabula.....	8,763	135,035	197	2,183	688	
Athens.....	14,438	122,071	334	2,568	266	
Auglaize.....	22,109	337,355	659	7,436	155	
Belmont.....	19,641	231,623	1,131	9,934	333	
Brown.....	22,341	268,412	3,868	29,333	116	
Butler.....	33,900	525,889	831	8,967	250	
Carroll.....	14,750	158,963	962	10,012	311	
Champaign.....	29,683	401,263	288	3,460	139	
Clarke.....	28,129	439,858	1,062	15,649	64	
Clermont.....	13,762	177,651	1,981	18,048	181	
Clinton.....	17,147	267,617	1,056	13,128	172	
Columbiana.....	20,003	313,770	1,814	21,996	547	
Coshocton.....	24,504	294,718	823	8,301	529	
Crawford.....	25,553	503,473	375	66,219	107	
Cuyahoga.....	5,551	100,293	1,010	16,318	60	
Darke.....	35,423	513,105	2,351	36,591	378	
Defiance.....	14,745	228,495	615	11,116	271	
Delaware.....	13,472	208,096	711	7,242	264	
Erie.....	17,464	375,854	187	2,210	464	
Fairfield.....	37,572	544,487	1,787	12,989	133	
Fayette.....	11,864	176,310	1,465	18,751	38	
Franklin.....	20,324	366,974	1,497	19,507	210	
Fulton.....	19,722	363,795	709	6,762	854	
Gallia.....	25,476	241,481	342	2,726	148	
Geauga.....	4,248	66,185	86	914	104	
Greene.....	30,011	501,482	860	10,565	23	
Guernsey.....	13,540	128,478	832	7,552	542	
Hamilton.....	9,584	162,480	3,458	42,431	206	
Hancock.....	31,870	621,615	374	7,818	148	
Hardin.....	18,957	321,873	134	1,957	265	
Harrison.....	11,414	145,823	468	4,604	154	
Henry.....	13,708	202,045	1,444	26,719	260	
Highland.....	29,476	363,166	1,015	9,003	68	
Hocking.....	9,669	79,943	601	5,227	375	
Holmes.....	25,151	335,753	982	10,445	485	
Huron.....	23,945	442,370	170	2,392	277	
Jackson.....	10,763	73,009	94	544	225	
Jefferson.....	15,897	226,748	712	8,154	148	
Knox.....	24,547	333,476	1,123	11,908	388	
Lake.....	4,956	82,783	489	6,578	252	

WHEAT, RYE, AND BUCKWHEAT PRODUCED IN OHIO—Continued.

Counties.	Wheat.		Rye.		Buckwheat.	
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
Lawrence.....	13,193	124,840	178	1,985	71	627
Licking.....	28,594	433,874	2,005	20,434	669	6,344
Logan.....	27,273	342,379	405	4,046	202	1,556
Lorain.....	14,569	244,126	179	2,336	78	1,161
Lucas.....	8,891	169,092	482	7,030	704	9,948
Madison.....	5,633	67,651	1,112	15,721	43	657
Mahoning.....	11,291	188,153	1,015	10,916	497	5,460
Marion.....	15,155	224,784	161	2,394	71	753
Medina.....	13,140	230,684	356	4,143	130	1,109
Meigs.....	17,718	181,442	773	6,080	246	1,613
Mercoer.....	19,615	317,955	696	13,297	225	2,685
Miami.....	32,661	436,093	1,709	14,402	91	845
Monroe.....	13,406	127,639	2,066	14,492	393	3,051
Montgomery.....	33,959	512,784	1,492	20,166	49	555
Morgan.....	13,115	141,965	340	3,044	204	1,581
Morrow.....	11,226	159,435	777	8,329	361	2,526
Maskingum.....	24,796	292,584	1,742	14,004	357	3,160
Noble.....	13,576	123,522	527	4,911	190	1,334
Ottawa.....	10,515	207,677	277	6,029	169	3,022
Paulding.....	4,041	61,043	393	5,462	241	3,036
Perry.....	14,933	166,959	941	8,975	271	2,094
Pickaway.....	24,984	419,155	1,151	12,032	72	851
Pike.....	8,427	96,582	130	671	160	982
Portage.....	13,234	217,927	445	5,307	191	1,882
Preble.....	25,091	344,960	13,21	13,285	120	905
Putnam.....	16,147	320,374	1,544	21,538	164	2,395
Richland.....	30,923	424,641	964	11,301	342	3,882
Ross.....	30,763	421,607	1,674	14,127	92	653
Sandusky.....	34,916	727,140	417	6,658	261	3,544
Scioto.....	9,327	90,630	43	407	133	944
Seneca.....	51,790	1,010,697	171	2,293	71	812
Shelby.....	24,414	277,402	631	5,668	271	2,675
Stark.....	45,628	614,404	529	6,874	161	1,394
Summit.....	24,923	414,826	299	3,509	142	1,668
Trumbull.....	8,227	124,176	482	4,668	745	6,679
Tuscarawas.....	30,108	400,970	1,006	10,392	459	3,497
Union.....	12,145	182,547	209	2,816	156	1,979
Van Wert.....	11,014	197,771	659	14,809	241	2,641
Vinton.....	5,959	48,758	268	2,001	272	2,089
Warren.....	20,537	291,213	640	6,331	298	3,160
Washington.....	23,694	264,651	2,229	20,227	554	4,139
Wayne.....	45,806	740,040	499	5,931	115	1,098
Williams.....	21,174	363,752	191	2,717	226	2,385
Wood.....	18,267	343,575	735	13,312	623	7,750
Wyandot.....	22,399	422,591	222	3,576	140	1,320
Totals.....	1,746,084	27,306,566	74,580	914,106	22,243	225,822

OATS, BARLEY, AND CORN PRODUCED IN OHIO IN 1877.

Counties.	Oats.		Barley.		Corn.	
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
Adams	7,156	112,899	70	545	39,666	1,095,161
Allen	10,839	347,794	80	1,571	37,441	1,397,946
Ashland	16,999	657,118	246	5,472	26,278	1,031,519
Ashtabula	17,959	546,965	54	1,159	14,658	536,160
Athens	2,611	52,518	10	15	23,408	615,215
Auglaize	11,295	371,804	826	26,697	39,975	1,098,343
Belmont	13,732	365,653	209	3,950	29,067	1,144,581
Brown	10,461	167,420	75	1,523	51,494	1,581,518
Butler	9,037	239,088	15,852	484,724	75,794	3,273,070
Carroll	14,578	432,684	32	518	14,974	523,961
Champaign	7,205	245,538	109	3,302	55,585	1,849,206
Clarke	6,169	181,819	471	14,915	46,679	1,704,050
Clermont	11,188	220,468	103	2,572	46,341	1,267,970
Clinton	5,451	143,596	30	657	73,242	2,640,472
Columbiana	19,212	664,075	66	1,385	21,276	606,461
Coshocton	11,397	346,548	4	150	37,002	1,307,452
Crawford	17,202	724,163	209	4,811	31,290	1,154,001
Cuyahoga	13,307	485,683	111	3,227	12,094	508,802
Darke	18,044	627,495	2,666	77,182	71,416	2,013,594
Defiance	11,424	401,993	144	2,584	22,596	613,818
Delaware	7,449	230,512	30	872	39,245	1,245,833
Erie	8,948	327,644	1,791	41,269	19,423	777,101
Fairfield	6,095	180,878	1,291	34,984	57,269	2,100,677
Fayette	1,322	37,319	.....	.....	80,284	2,708,897
Franklin	6,678	217,186	110	2,386	68,237	2,464,861
Fulton	12,498	444,599	26	314	25,357	901,724
Gallia	4,649	82,269	12	151	28,679	657,423
Geauga	9,421	318,891	23	447	6,900	252,420
Greene	4,338	133,688	22	28,081	58,363	2,210,908
Guernsey	9,497	265,173	23	317	22,755	784,222
Hamilton	7,955	170,686	3,280	81,961	46,929	1,595,507
Hancock	10,432	365,533	304	6,303	52,405	1,646,965
Hardin	7,499	265,218	108	2,568	37,725	1,286,300
Harrison	7,570	241,332	42	910	16,329	642,351
Henry	7,693	260,450	.....	4,532	25,900	666,192
Highland	7,018	137,934	32	500	63,064	2,013,533
Hocking	3,415	64,307	51	915	18,243	478,452
Holmes	16,936	546,717	100	1,932	25,732	927,568
Huron	19,975	822,856	498	10,205	32,060	1,141,993
Jackson	5,595	90,608	.....	.....	21,860	465,820
Jefferson	10,881	361,314	158	3,267	16,581	603,709
Knox	12,302	406,416	39	946	38,968	1,403,860
Lake	6,097	215,941	842	19,234	7,266	290,942
Lawrence	6,702	107,905	41	1,165	24,268	520,691
Licking	10,873	301,522	78	2,078	54,966	2,079,327
Logan	6,802	187,194	83	1,697	50,795	1,353,618
Lorain	14,458	579,249	889	22,715	18,824	793,687
Lucas	5,945	202,654	395	8,342	15,734	609,767
Madison	1,962	59,255	6	100	66,499	2,308,525
Mahoning	15,049	137,105	94	1,575	15,056	650,919
Marion	11,557	416,919	144	2,796	42,191	1,330,787
Medina	15,296	554,294	61	1,269	16,430	795,659
Meigs	3,552	69,269	141	2,056	20,891	511,760
Mercer	14,922	450,817	223	7,703	34,312	714,147
Miami	11,249	408,444	3,158	85,737	56,348	1,784,218
Monroe	11,668	272,568	38	535	20,613	635,773
Montgomery	15,126	499,114	4,874	158,615	51,035	1,821,760
Morgan	4,217	9,200	18	200	19,224	633,763
Morrow	11,663	480,471	10	324	28,032	917,736

OATS, BARLEY, AND CORN PRODUCED, ETC—Continued.

Counties.	Oats.		Barley.		Corn.	
	Acres.	Bu-hels.	Acres.	Bushels.	Acres.	Bushels.
Muskingum	9,760	254,115	89	1,762	36,627	1,347,498
Noble	7,643	175,579	-----	-----	24,466	876,197
Ottawa	3,742	136,606	379	9,669	13,386	525,800
Paulding	4,462	141,559	10	194	13,911	299,036
Perry	4,057	95,528	230	7,775	21,047	696,757
Pickaway	2,050	48,802	345	9,195	87,381	2,844,894
Pike	6,289	91,919	784	24,769	31,710	977,951
Portage	14,455	531,368	43	1,084	13,055	652,994
Preble	14,084	460,488	14,12	45,752	58,002	2,007,644
Putnam	7,185	257,226	81	1,687	34,705	1,086,527
Richland	24,551	942,993	333	8,840	31,036	1,063,045
Ross	3,506	49,172	129	3,031	83,168	2,922,976
Sandusky	12,607	449,904	488	9,026	34,618	1,332,255
Scioto	6,277	86,456	249	7,388	25,035	871,820
Seneca	17,946	626,079	115	2,639	40,554	1,371,497
Shelby	15,940	416,454	1,316	35,196	39,522	804,929
Stark	25,220	985,432	494	10,949	26,837	1,306,366
Summit	14,822	602,407	94	2,110	15,532	936,295
Trumbull	17,326	657,922	30	560	15,889	827,259
Tuscarawas	19,021	652,638	90	1,314	25,596	825,755
Union	7,268	194,136	61	1,243	48,478	1,487,845
Van Wert	7,846	258,271	97	2,083	31,355	720,191
Vinton	2,707	47,504	-----	-----	16,049	417,960
Warren	9,829	233,104	6,693	243,897	66,988	2,436,262
Washington	9,085	194,530	16	135	28,158	791,662
Wayne	26,299	1,039,913	423	8,546	33,208	1,165,468
Williams	15,994	486,119	38	807	26,720	831,426
Wood	14,800	527,616	568	13,842	52,906	1,653,560
Wyandot	8,123	339,059	15	480	37,864	1,254,382
Totals	923,444	29,325,611	56,165	1,629,817	3,135,959	101,884,306

COMPARATIVE TABLE, EXHIBITING THE NUMBER OF BUSHELS OF WHEAT AND CORN PRODUCED ANNUALLY, FROM 1850 TO 1877, INCLUSIVE.

Year.	Busbels of wheat.	Average number of bushels to acre.	Busbels of corn.	Average number of bushels to acre.
1850	31,500,000	18.	56,619,608	36.8
1851	25,309,225	15.2	61,171,282	36.7
1852	23,043,737	14.1	58,165,617	33.6
1853	17,118,311	12.	73,436,070	40.
1854	11,889,110	8.	52,171,561	26.
1855	19,569,320	13.61	87,687,434	39.7
1856	15,333,637	10.2	57,802,515	27.7
1857	25,397,614	14.	82,555,186	36.6
1858	17,655,463	10.4	50,863,582	27.7
1859	13,347,967	7.3	68,730,846	29.5
1860	23,640,356	12.8	91,588,704	33.2
1861	20,055,424	11.	74,858,878	33.5
1862	29,764,887	12.	62,764,887	30.
1863	20,452,410	11.36	54,614,617	27.
1864	15,541,385	9.33	54,053,491	27.
1865	13,234,139	9.	68,053,668	35.
1866	5,824,747	4.50	80,386,320	38.50
1867	13,350,726	11.51	63,875,064	29.84
1868	16,480,059	11.31	76,725,288	34.37
1869	26,499,729	15.37	62,443,346	28.36
1870	18,726,341	11.29	82,565,299	37.52
1871	22,274,378	13.27	98,363,060	36.67
1872	18,087,664	11.22	103,053,234	40.69
1873	21,974,385	12.61	84,049,328	35.07
1874	26,896,818	14.51	101,815,494	39.75
1875	17,867,967	9.22	97,825,024	34.08
1876	15,354,569	10.18	112,552,642	36.87
1877	27,306,566	15.63	101,684,305	32.48

NOTE.—The total number of bushels of wheat produced in 1877 exceeds the production of any year subsequent to 1862, and the average number of bushels to the acre is greater than in any year since 1850.

COMPARATIVE TABLE, EXHIBITING THE NUMBER OF BUSHELS OF OATS AND BUCKWHEAT PRODUCED ANNUALLY, FROM 1857-8 TO 1877 INCLUSIVE.

Years.	Oats--total number of bushels.	Average number bushels oats per acre.	Buckwheat--total number of bushels.	Average number bushels buckwheat to acre.
1857.....	26,572,674	.....	.....	.....
1858.....	8,026,251	12.	791,921	11.11
1859.....	15,048,910	23.	3,042,176	.....
1860.....	25,127,724	30.	763,939	11.43
1861.....	17,796,794	24.	606,623	13.55
1862.....	11,802,170	■	179,135	8.56
1863.....	11,317,561	■	200,000	9.90
1864.....	14,579,226	24.	966,679	13.66
1865.....	17,586,664	26.	831,986	24.74
1866.....	21,656,664	23.	1,292,415	12.42
1867.....	18,634,222	24.	590,245	10.19
1868.....	19,068,852	23.	562,256	10.97
1869.....	24,417,799	29.18	223,766	7.70
1870.....	24,819,909	26.88	287,643	11.77
1871.....	32,696,127	■	177,936	11.66
1872.....	25,825,742	26.66	266,607	7.65
1873.....	20,094,904	25.37	213,074	10.14
1874.....	19,557,014	22.	240,015	12.04
1875.....	23,434,868	25.33	377,333	12.
1876.....	25,379,480	24.46	222,439	8.37
1877.....	29,325,611	31.75	225,822	10.15

COMPARATIVE TABLE, EXHIBITING THE NUMBER OF BUSHELS OF RYE AND I
PRODUCED ANNUALLY, FROM 1859 TO 1877 INCLUSIVE.

Years.	Rye--total number of bushels.	Average number of bush- els Rye to acre.	Barley--total number of bushels.
1859.....	576,274	.....	.....
1860.....	1,078,764	11.40	1,548,477
1861.....	770,829	11.22	1,255,049
1862.....	823,291	14.34	1,222,041
1863.....	305,969	9.43	1,329,251
1864.....	503,316	10.30	2,337,213
1865.....	910,518	10.43	2,419,900
1866.....	622,333	7.98	1,353,955
1867.....	1,025,291	9.44	1,604,179
1868.....	615,666	9.30	815,778
1869.....	852,722	11.28	1,689,416
1870.....	331,196	9.43	1,502,007
1871.....	428,014	11.50	1,941,240
1872.....	295,643	11.76	1,528,266
1873.....	291,929	10.45	1,074,906
1874.....	231,435	9.94	1,233,914
1875.....	415,666	11.31	505,513
1876.....	442,238	9.35	967,312
1877.....	914,106	12.21	1,629,817

TIMOTHY AND CLOVER PRODUCED IN OHIO IN 1877.

Counties.	Timothy.		Clover.			
	Acres.	Tons hay.	Acres.	Tons hay.	Busbels seed.	Acres plowed under for mowing.
Adams	9,755	8,600	1,532	384	1,101	133
Allen	14,320	18,162	5,576	5,609	7,765	417
Ashland	23,777	30,727	11,745	8,840	8,609	238
Ashtabula	53,404	69,171	596	765	26	26
Athens	18,996	23,007	325	342	43	18
Auglaize	10,035	14,151	3,863	4,528	5,209	274
Belumout	30,649	38,054	■	978	629	83
Brown	15,337	13,524	4,321	421	60	419
Butler	10,953	13,278	10,497	2,343	916	3,063
Carroll	27,106	32,671	1,500	1,697	738	45
Champaign	13,513	16,020	3,329	2,792	2,641	304
Clarke	14,181	19,779	5,422	3,284	3,696	1,576
Clermont	12,557	24,100	3,324	1,699	27	947
Clinton	12,490	15,007	1,683	922	357	337
Columbiana	32,594	47,828	2,769	3,180	1,143	38
Coshocton	25,584	30,650	2,060	1,668	1,419	136
Crawford	17,637	24,406	10,734	14,061	16,564	■
Cuyahoga	34,364	38,529	196	239	2	47
Daike	1,053	13,654	10,180	5,527	3,711	2,611
Debate	13,101	15,428	3,962	3,852	4,963	854
Delaware	25,447	39,202	1,838	2,418	2,200	77
Erie	11,152	14,923	2,848	2,641	3,852	300
Fairfield	20,709	23,000	2,684	2,054	2,423	321
Fayette	10,116	10,960	953	213	31	32
Franklin	22,015	30,353	3,303	1,913	728	1,548
Fulton	16,103	19,578	5,327	6,204	4,304	189
Gallia	12,168	12,434	649	303	43	453
Geauga	32,226	34,150	205	253	■	24
Greene	11,178	14,903	5,785	1,750	1,134	2,372
Guernsey	32,071	40,196	1,042	1,158	392	31
Hamilton	17,717	18,292	3,038	3,143	■	658
Hancock	17,958	24,761	7,072	7,968	9,677	390
Hardin	14,841	20,444	2,730	2,966	3,786	349
Harrison	28,436	36,439	389	314	360	■
Henry	8,296	9,925	2,437	2,436	2,546	166
Highland	17,184	17,656	1,958	653	493	26
Hocking	12,178	13,071	1,043	750	449	64
Holmes	16,441	20,402	8,146	8,306	7,078	211
Huron	31,116	37,131	5,930	5,461	7,173	349
Jackson	14,710	14,310	189	120	25	50
Jefferson	25,534	30,535	723	626	1,033	5
Knox	27,649	36,349	3,406	2,922	2,838	920
Lake	14,578	17,669	651	1,155	93	144
Lawrence	7,703	6,456	2,202	246	24	280
Licking	37,977	38,017	1,500	1,455	779	46
Logan	15,430	20,967	5,416	4,345	4,929	379
Lorain	41,414	48,130	707	822	562	33
Lucas	10,166	15,338	2,129	2,436	2,615	126
Madison	15,917	21,500	394	291	69	17
Marion	34,659	41,313	2,169	2,825	1,305	124
Marion	16,518	22,018	5,187	6,211	6,403	120
Medina	34,127	38,230	3,447	3,785	3,601	203
Meigs	16,966	18,213	■	562	66	166
Mercer	11,071	15,496	4,764	5,372	6,935	242
Miami	8,146	10,983	5,627	4,496	3,045	3,306

TIMOTHY AND CLOVER—Continued.

Counties.	Timothy.		Clover.		
	Acres.	Tons hay.	Acres.	Tons hay.	Bushels seed.
Monroe	19,576	20,306	730	704	763
Montgomery	10,793	14,450	14,551	8,547	4,924
Morgan	19,130	24,049	1,321	1,027	722
Morrow	29,838	33,994	2,579	3,719	2,733
Muskingum	38,016	47,814	1,938	1,957	536
Noble	21,852	28,787	500	379	109
Ottawa	7,911	10,012	1,866	2,755	2,766
Paulding	5,966	16,735	884	873	628
Perry	20,258	23,806	603	624	540
Pickaway	10,100	12,218	2,043	789	694
Pike	6,745	5,755	719	180	30
Portage	33,014	42,766	1,503	1,983	1,069
Preble	7,994	10,117	9,183	3,673	3,276
Putnam	12,463	15,651	3,049	3,370	3,814
Richland	23,092	37,641	12,293	10,307	12,665
Ross	11,342	10,699	3,106	1,062	909
Sandusky	10,985	14,017	8,791	10,148	8,626
Scioto	10,029	9,075	596	238	7
Seneca	20,068	23,396	14,324	13,924	15,851
Shelby	9,436	10,768	4,601	3,488	3,594
Stark	30,736	39,659	11,112	12,896	5,635
Summit	27,308	34,755	4,685	4,245	1,826
Trumbull	59,189	67,729	810	969	152
Tuscarawas	32,011	40,423	7,096	6,683	5,758
Union	20,595	23,953	1,421	1,883	757
Van Wert	10,754	15,303	2,113	2,320	2,186
Vinton	11,034	11,085	226	81	14
Warren	13,138	15,619	6,552	1,542	358
Washington	26,239	31,400	1,343	1,130	392
Wayne	29,935	40,742	13,730	15,352	10,124
Williams	16,413	19,528	7,442	6,926	6,930
Wood	16,146	20,638	4,455	5,002	6,264
Wyandot	17,507	22,577	4,892	5,337	6,557
Totals	1,739,813	2,160,334	334,577	286,265	251,934

COMPARATIVE TABLE OF TIMOTHY AND CLOVER.

Year.	Timothy.			Clover.				
	Number of acres.	Tons of hay.	Average yield per acre.	Number of acres.	Tons of hay.	Bushels of seed.	Average yield of clover hay per acre.	No. of acres ploughed under.
1859	1,357,874	1,506,461	1.33					
1859	1,340,672	1,340,065	1.02					
1860	1,638,342	2,027,160	1.33					
1861	1,461,418	1,704,201	1.16					
1862	1,570,252	2,067,280	1.32					
1863	1,195,560	1,095,440	.90	403,834	301,473	151,006	.74	
1864	1,252,471	1,204,021	.95	346,457	269,070	105,837	.77	27,306
1865	1,440,191	1,852,301	1.32	320,391	359,856	217,301	.92	33,076
1866	1,410,081	1,839,504	1.30	251,041	159,671	62,200	.61	30,190
1867	1,540,704	1,931,405	1.25	313,520	286,837	147,846	.81	26,811
1868	1,532,342	1,743,537	1.13	942,391	254,805	47,035	.81	32,080
1869	1,484,521	1,784,947	1.19	401,029	360,268	98,570	.89	36,648
1870	1,390,522	1,554,622	1.11	340,440	401,336	367,069	1.17	34,893
1871	1,377,876	1,528,806	1.10	450,099	401,415	364,974	.89	46,998
1872	1,322,347	1,270,779	.90	549,557	493,171	308,903	.89	51,552
1873	1,315,157	1,302,164	.99	651,158	568,048	205,944	.87	64,080
1874	1,310,837	1,145,909	.83	102,208	362,386	194,066	.72	40,377
1875	1,434,174	1,477,968	1.03	222,742	243,726	60,057	1.12	24,965
1876	1,511,015	1,709,903	1.13	467,599	447,417	157,459	.91	46,617
1877	1,739,813	2,160,334	1.24	334,577	226,205	251,934	.85	44,891

NOTE.—In 1877 the number of acres in timothy exceeds the acreage reported in any previous year in Ohio.

FLAX AND POTATOES PRODUCED IN OHIO IN 1877.

Counties.	Flax.			Potatoes.		Sweet potatoes.	
	Acres.	Bushels seed.	Pounds fiber.	Acres.	Bushels.	Acres.	Bushels.
Adams.....	1	.....	85	609	42,729	50	2,275
Allen.....	1,332	11,095	297,890	937	108,214	8	595
Ashland.....	1,139	11,537	555,666	1,141	103,618	8	514
Ashtabula.....	5	55	8,000	4,038	403,508	.....	.....
Athens.....	.....	.....	.....	1,177	73,145	33	1,292
Auglaize.....	708	5,481	34,007	1,329	75,920	9	104
Belmont.....	$\frac{1}{2}$	2	50	1,324	147,359	9	944
Brown.....	79 $\frac{1}{2}$	235	50	1,846	98,233	29 $\frac{1}{2}$	1,692
Butler.....	682	4,233	2,000	1,778	154,375	57 $\frac{1}{2}$	4,951
Carroll.....	6 $\frac{1}{2}$	85	80	563	63,509	3 $\frac{1}{2}$	235
Champaign.....	618	4,593	.....	672	55,977	17	1,525
Clarke.....	1,326	12,443	326,240	1,285	110,440	40 $\frac{1}{2}$	4,078
Clermont.....	123 $\frac{1}{2}$	761	20	6,121	222,510	60 $\frac{1}{2}$	3,679
Clinton.....	657	4,188	62,600	1,457	84,053	45	2,485
Columbiana.....	229	2,629	81,122	1,574	143,758	4 $\frac{1}{2}$	165
Coshocton.....	$\frac{1}{2}$	15	.....	990	99,555	3	189
Crawford.....	368	3,127	.....	1,286	121,465	2 $\frac{1}{2}$	342
Cuyahoga.....	9	100	.....	3,512	305,909	2 $\frac{1}{2}$	546
Darke.....	2,481	21,270	55,850	1,659	114,264	38	2,229
Defiance.....	60	214	.....	982	106,855	2 $\frac{1}{2}$	198
Delaware.....	681	6,567	125,533	994	83,705	2	110
Erie.....	5	39	.....	2,008	215,204	2 $\frac{1}{2}$	414
Fairfield.....	2	10	.....	1,613	128,511	71	5,247
Fayette.....	40	352	8,000	510	44,655	18	1,408
Franklin.....	11	80	.....	2,029	161,048	11	885
Fulton.....	209	919	.....	1,345	132,826	16	1,116
Gallia.....	.....	.....	.....	1,755	140,411	21 $\frac{1}{2}$	1,412
Geauga.....	144	1,400	84,402	2,189	187,629	.....	.....
Greene.....	1,697	23,157	860,247	1,081	82,564	50	3,141
Guernsey.....	.....	.....	.....	653	55,561	13	739
Hamilton.....	.....	.....	.....	5,359	398,842	120	8,607
Hancock.....	2,385	20,361	240,920	1,258	124,634	13 $\frac{1}{2}$	573
Hardin.....	762 $\frac{1}{2}$	6,681	44,415	1,032	103,127	1	129
Harrison.....	1 $\frac{1}{2}$	2	47	471	51,665	2 $\frac{1}{2}$	302
Henry.....	6	33	.....	1,286	124,655	2 $\frac{1}{2}$	245
Higbland.....	1 $\frac{1}{2}$	102	.....	1,128	82,911	26	1,702
Hocking.....	3 $\frac{1}{2}$	18	120	1,066	67,637	64	3,085
Holmes.....	5	27	.....	902	90,053	5	480
Huron.....	252	2,140	17,800	1,260	121,713	4	622
Jackson.....	1	1	.....	720	50,163	5 $\frac{1}{2}$	514
Jefferson.....	1	2	.....	660	76,782	2	55
Knox.....	1,667	12,852	59,263	1,023	86,367	11	499
Lake.....	5	60	.....	3,201	271,037	.....	.....
Lawrence.....	30	3	.....	951	55,248	43	3,374
Licking.....	106	1,083	.....	1,681	135,138	5 $\frac{1}{2}$	374
Logan.....	246	1,845	8,002	681	47,722	15 $\frac{1}{2}$	833
Lorain.....	80	851	11,560	1,681	164,542	19	1,800
Lucas.....	224	560	.....	2,181	198,006	4 $\frac{1}{2}$	92
Madison.....	46	376	70	594	44,119	1 $\frac{1}{2}$	75
Mahoning.....	791	8,211	547,275	1,316	130,671	7	702
Marion.....	318	3,161	27,813	835	65,242	5 $\frac{1}{2}$	274
Medina.....	1,030	11,810	372,840	1,121	110,275	8	231
Meigs.....	1	.....	200	2,136	134,590	27	2,545
Mercer.....	1,458	9,306	.....	706	50,238	4	81
Miami.....	4,807	38,304	367,280	1,106	81,555	63	3,265
Monroe.....	.....	.....	.....	1,150	87,296	5	363
Montgomery.....	2,325	19,086	639,060	1,946	130,622	70 $\frac{1}{2}$	6,944

FLAX AND POTATOES—Continued.

Counties.	Flax.			Potatoes.		Sweet potatoes.	
	Acres.	Bushels seed.	Pounds fiber.	Acres.	Bushels.	Acres.	Bushels.
Morgan				720	53,384	39	2,600
Morrow	1,093	8,955		951	22,314	24	69
Muskingum				1,640	138,501	86	7,976
Noble				755	59,072	6	294
Ottawa	1	16	50	640	53,926	10	335
Paulding	92	658		1,006	52,588	4	232
Perry	14	7	15	1,063	81,964	14	1,334
Pickaway	1	15		952	70,797	52	2,758
Pike				937	64,319	0	753
Portage	264	4,383	369,009	3,540	295,206		
Preble	4,597	38,954		1,004	82,135	40	3,060
Putnam	112	1,174		1,374	118,492	11	346
Richland	121	1,890	24,003	1,676	141,550	34	131
Ross				1,312	94,766	22	1,129
Sandusky	8	40		1,852	181,472	7	923
Scioto				1,490	82,042	40	3,614
Seneca	193	2,000		1,487	152,927	9	261
Shelby	1,433	12,431	14,700	941	51,011	7	356
Stark	130	1,349	97,600	1,570	195,024	10	621
Summit				1,559	134,023	2	170
Trembly	1,101	12,799	1,175,370	1,993	200,463		269
Tuscarawas	13	50	6	1,312	138,480	3	262
Union	264	2,685	386,200	575	49,732		327
Van Wert	1,000	6,821	28,403	723	67,479	3	260
Vinton				529	36,512	2	717
Warren	1,222	9,940	98,143	1,304	117,169	4	4,944
Washington				2,635	155,788	10	9,229
Wayne	679	7,477	160,630	1,926	177,594	12	696
Williams	309	2,336		1,005	101,955	12	816
Wood	63	573	50	1,724	166,003	1	110
Wyandot	254	2,715		1,102	101,367	8	384
Totals	42,541	309,793	7,343,194	127,626	10,504,278	7,252	126,354

TOBACCO PRODUCED IN OHIO IN 1877.

Counties.	Tobacco.		Counties.	Tobacco.	
	Acres planted.	Pounds produced.		Acres planted.	Pounds produced.
Adams	320	235,737	Licking	2	986
Allen	7	2,745	Logan	2½	1,130
Ashland	1½	145	Lorain	6	376
Ashtabula	8½	13,250	Lucas	2	1,060
Athens	145½	103,485	Madison	8½	1,325
Auglaize	19	6,000	Mahoning	2½	579
Belmont	1,641½	1,674,321	Marion	4½	1,565
Brown	3,544½	2,843,639	Medina	35	37,188
Butler	285½	284,849	Meigs	5½	4,152
Carroll	1½	1,100	Mercer	5	1,060
Champaign	8	1,420	Miami	296	271,172
Clarke	58½	62,037	Monroe	2,313	2,083,383
Clermont	2,228½	1,706,620	Montgomery	8,635	6,118,427
Clinton	65½	80,585	Morgan	600	395,591
Columbiana	2½	2,503	Morrow	5½	1,010
Coshocton	6	2,260	Muskingum	7	2,506
Crawford	3½	1,461	Noble	2,780	2,388,450
Cuyahoga	1-16	150	Ottawa	6	948
Darke	793	636,296	Paulding	16	21,029
Defiance	65½	41,410	Perry	35½	22,790
Delaware	3	1,725	Pickaway	9	635
Erie	½	300	Pike	14	8,257
Fairfield	2	390	Portage	6	1,032
Fayette	3	60	Preble	1,807	1,033,777
Franklin	6	525	Putnam	1	950
Fulton	1½	850	Richland	4	581
Gallia	156	84,386	Ross	11	5,946
Geauga	301½	312,420	Sandusky	1½	160
Greene	805	733,532	Soloto	2½	5,518
Guernsey	7	6,115	Seneca	1	155
Hamilton	4½	370	Shelby	11	139,720
Hancock	15½	3,934	Stark	4½	6,259
Hardin	27½	20,620	Summit	1	200
Harrison	7	5,066	Trumbull	9½	1,670
Henry	44½	31,127	Tuscarawas	1½	600
Hocking	22	11,853	Union	4½	1,190
Holmes	1½	530	Van Wert	3	2,240
Huron	5½	2,867	Vinton	91	77,025
Jackson	3	2,350	Warren	775	863,199
Jefferson	12	12,700	Washington	1,687	1,355,889
Knox	130	79,291	Wayne	75	84,740
Lake			Williams	½	25
Lawrence			Wood	6½	860
			Wyandot		
			Totals	29,407½	24,214,950

COMPARATIVE TABLE SHOWING THE AMOUNT OF TOBACCO PRODUCED IN FOURTEEN YEARS.

Years.	Acres.	Pounds.	Average No. pounds per acre.	Years.	Acres.	Pounds.	Average No. pounds per acre.
1863	47,260	37,022,723	783	1871	28,662	36,177,630	1,253
1864	21,343	17,077,012	799	1872	46,227	34,900,996	755
1865	22,397	14,107,624	650	1873	43,250	39,572,558	902
1866	23,281	22,183,693	970	1874	12,439	9,245,524	743
1867	15,788	10,790,575	683	1875	34,035	19,814,638	582
1868	18,035	17,398,198	964	1876	31,477	26,634,467	846
1869	20,251	15,943,116	787	1877	29,407½	24,214,950	823
1870	20,484	21,056,729	1,027				

SORGHUM, MAPLE SUGAR AND SYRUP, NUMBER OF HIVES OF BEES, AND AMOUNT OF HONEY PRODUCED IN OHIO IN 1877.

Counties.	Sorghum.			Maple sugar and syrup.		Bees and honey.	
	Acres planted.	Pounds sugar.	Gallons syrup.	Pounds sugar.	Gallons syrup.	Number hives.	Pounds honey.
Adams	369	.....	30,172	768	861	1,404	11,806
Allen	120	10	9,922	4,144	2,263	1,527	22,094
Ashtabula	108	8	613	48,169	11,672	1,735	19,024
Ashland	.....	.....	293	160,104	16,793	669	5,024
Athens	211	254	16,390	1,536	1,096	1,521	21,313
Auglaize	406	.....	19,448	2,879	1,294	1,077	8,166
Belmont	289	358	26,765	411	1,410	3,728	35,609
Brown	331	127	19,850	95	443	1,453	26,194
Butler	145	100	13,528	44	2,911	1,362	26,012
Carroll	106	.....	8,502	930	607	1,626	17,196
Champaign	117	69	9,459	11,629	8,863	1,643	13,587
Clarke	122	.....	11,996	30	262	545	5,385
Clermont	296	38	15,506	117	647	1,602	20,667
Clinton	231	.....	17,496	16,598	6,840	1,487	18,757
Columbiana	64	15	3,929	10,737	8,220	2,226	17,296
Coshocton	216	406	16,926	708	379	2,924	24,921
Crawford	56	24	4,916	5,212	3,407	2,032	12,359
Cuyahoga	16	200	.....	31,037	4,571	934	8,705
Darke	552	168	37,020	1,736	5,614	2,144	17,169
Deane	163	.....	16,581	1,702	496	1,217	9,006
Delaware	94	77	6,743	13,924	9,671	1,579	25,169
Erie	27	19	2,413	6,355	330	.....	7,099
Fairfield	138	.....	11,026	1,504	2,953	3,169	30,388
Fayette	70	.....	5,199	.....	412	1,676	20,041
Franklin	147	10	10,746	263	779	1,608	18,627
Fulton	63	.....	6,892	167	134	1,308	13,466
Gallia	642	.....	41,947	329	103	1,439	17,002
Geauga	.....	.....	.....	382,810	8,920	625	4,721
Greene	89	32	8,434	11,778	5,466	1,552	18,722
Guernsey	401	.....	32,346	291	128	2,526	29,812
Hamilton	44	228	3,762	68	600	1,264	20,573
Hancock	54	309	3,563	10,015	6,191	2,252	22,175
Hardin	126	123	8,855	4,014	1,941	2,663	26,968
Harrison	106	773	12,165	143	732	1,635	22,778
Henry	157	.....	15,522	515	675	1,242	16,329
Highland	247	16	19,429	2,149	1,622	1,426	16,949
Hocking	363	3	21,104	829	365	1,110	11,254
Holmes	49	14	3,933	2,730	728	2,201	12,833
Huron	46	80	3,103	21,876	4,276	1,573	24,225
Jackson	421	64	33,359	300	61	220	7,672
Jefferson	100	776	9,709	606	727	1,622	14,284
Knex	39	41	3,298	14,520	6,337	1,071	19,085
Lake	.....	.....	152	32,509	1,239	459	4,146
Lawrence	790	175	57,914	403	15	914	11,143
Licking	129	177	9,507	6,569	6,812	2,667	22,261
Logan	99	7	5,785	293,469	20,251	2,203	20,708
Lorain	26	616	1,909	26,743	3,482	1,111	12,968
Lucas	17	74	1,376	8	3	209	9,123
Madison	53	31	4,296	.....	250	1,824	27,425
Mahoning	162	50	1,658	45,865	19,099	2,078	14,894
Marion	62	30	4,448	2,323	826	2,143	22,506
Medina	.....	.....	.....	87,674	11,933	1,327	21,523
Meigs	428	.....	33,119	844	251	1,235	19,870
Merter	468	.....	20,671	1,329	320	826	8,308
Miami	208	291	17,368	3,260	6,473	1,269	11,263
Monroe	518	20	35,622	3,479	96	1,462	15,354

SORGHUM, MAPLE SUGAR AND SYRUP, NUMBER OF HIVES OF BEES, AND AMOUNT OF HONEY PRODUCED IN OHIO IN 1877—Continued.

Counties.	Sorghum.			Maple sugar and syrup.		Bees and honey.	
	Acres planted.	Pounds sugar.	Gallons syrup.	Pounds sugar.	Gallons syrup.	Number hives.	Pounds honey.
Montgomery	179	-----	20,878	6,227	6,508	1,423	11,801
Morgan	313½	-----	25,776	113	278	1,541	15,735
Morrow	26½	293	2,921	25,487	11,070	1,535	19,158
Muskingum	294	-----	22,429	100	219	2,828	30,263
Noble	516	-----	40,612	480	111	1,412	20,216
Ottawa	82½	178	5,359	10	10	348	7,353
Paulding	232	10	16,150	937	91	1,123	11,351
Perry	179	-----	13,502	5,403	4,006	1,599	15,768
Pickaway	62	44	5,318	693	889	2,622	37,176
Pike	418	-----	27,823	724	414	716	6,447
Portage	2	-----	240	111,836	29,502	1,559	12,603
Preble	326	-----	26,227	3,015	5,500	1,648	19,897
Putnam	202	-----	16,086	2,722	849	1,408	13,023
Richland	29	55	2,816	25,241	11,510	1,724	12,465
Ross	294	56	22,265	1,290	2,666	1,650	18,286
Sandusky	76½	-----	6,255	905	494	1,118	11,107
Scioto	477½	284	35,967	35	75	744	7,377
Seneca	79½	-----	6,823	6,988	3,881	2,139	47,738
Shelby	293	79	18,210	2,021	835	1,543	13,272
Stark	22½	10½	1,875	12,806	7,442	2,245	20,662
Summit	1	-----	63	26,155	4,057	1,307	17,709
Trumbull	21	46	1,090	69,494	14,037	1,560	14,747
Tuscarawas	127	108	10,577	1,969	755	3,267	30,676
Union	86½	-----	7,407	48,534	4,590	1,273	16,396
Van Wert	213	53	15,280	843	95	1,651	14,412
Vinton	318	-----	23,362	2,116	274	766	6,033
Warren	139	24	10,209	9,371	4,022	1,367	19,252
Washington	111	5	41,337	414	575	1,960	20,440
Wayne	35½	370	2,035	14,803	3,396	2,466	18,226
Williams	32½	-----	3,098	7,558	1,432	1,241	7,123
Wood	150	-----	11,754	563	531	2,163	18,128
Wyandot	31	41	1,934	2,122	1,090	1,851	20,568
Totals	16,104½	7,507½	1,180,255	1,625,215	324,036	142,363	1,534,902

TAXABLE LANDS IN OHIO.

Total number of acres of taxable lands in Ohio according to the census report of 1870	25,312,937
Total number of acres of taxable lands on the Grand Duplicate of Ohio in 1878	25,201,743
Total number of acres of taxable lands on the Grand Duplicate of Ohio in 1877	25,440,707
Total number of acres reported by county auditors from the assessors' returns May, 1878	20,965,371½
Total number of acres reported by county auditors from the assessors' returns May, 1877	19,198,759
Total number of acres reported by county auditors from the assessors' returns May, 1876	19,039,087
Total number of acres reported by county auditors from the assessors' returns May, 1875	19,526,715
Total number of acres reported by county auditors from the assessors' returns May, 1874	18,575,239

TAXABLE LANDS IN OHIO AS REPORTED TO COUNTY AUDITORS BY TOWNSHIP ASSESSORS, MAY, 1877.*

Counties.	Cultivated.	Pasture.	Wood.	Uncultivated or waste lands.	Total number of acres.
	No. acres.	No. acres.	No. acres.	No. acres.	
Adams	83,778	61,464	78,073	14,154	244,193
Allen	111,541	21,570	74,960	1,362	205,511
Ashland	125,952	54,073	52,993	1,870	240,351
Ashtabula	107,520	155,176	72,940	3,556	430,466
Athens	75,912	92,705	75,167	5,901	251,411
Auglaize	91,133	18,049	64,811	2,605	164,451
Belmont	85,621	124,345	64,713	10,475	286,154
Brown	113,993½	74,602½	63,149½	15,024½	264,710
Butler	141,949	22,719	36,024	6,227	241,928
Carroll	57,714	50,488	46,811	217	211,996
Champaign	124,194	38,414	47,604	1,719	212,331
Clarke	110,196	44,521	36,175	2,719	193,611
Clermont	114,662	43,235	40,536	13,493	217,898
Clinton	10,755	47,349	45,396	2,497	203,023
Columbiana	107,303	100,644	58,518	3,928	269,748
Coshocton	95,875	121,001	82,088	3,111	321,700
Crawford	123,291	35,229	49,494	1,172	209,146
Cuyahoga	77,250	77,806	29,782	2,670	186,508
Darke	190,935	14,578	100,279	9,319	315,111
Defiance	86,793	8,581	76,498	1,473	173,345
Delaware	96,764	93,760	51,300	2,400	244,224
Erie	73,144	22,946	16,229	1,565	116,299
Fairfield	129,278	70,765	58,643	6,920	270,911
Fayette	100,884	72,274	40,856	2,681	219,005
Franklin	118,950	49,513	37,218	4,971	210,654
Fulton	96,413	18,716	62,941	5,093	191,726
Gallia	78,441	72,952	69,232	9,765	234,728
Geauga	61,820	118,784	45,044	2,475	228,376
Greene	118,883	31,567	44,043	6,549	204,048
Guernsey	75,027	137,640	69,732	924	310,746
Hamilton	81,166	22,602	13,840	7,464	114,211
Hancock	150,879½	32,679	96,514½	1,001½	281,122½
Hardin	89,394½	30,741½	67,582½	3,062½	192,553
Harrison	47,419	121,796	43,628	11,948	226,041
Henry	73,691	3,948	58,058	1,902	137,629
Highland	122,871	86,477	65,439	5,225	280,012

TAXABLE LANDS IN OHIO—Continued.

Counties.	Cultivated.	Pasture.	Wood.	Uncultivated or waste lands.	Total
	No. acres.	No. acres.	No. acres.	No. acres.	
Hocking	44,585	75,302	61,131	8,430	
Holmes	100,518½	60,581	61,362½	3,345	
Huron	131,685	74,290	51,440	7,081	
Jackson	58,602	68,603	51,663	20,792	
Jefferson	69,147	95,277	51,220	3,173	
Knox	104,415	155,922	57,919	6,040	
Lake	47,494	40,920	20,403	2,667	
Lawrence	44,558	26,997	54,869	9,776	
Licking	111,758	144,280	76,230	4,107	
Logan	115,349	48,120	64,030	3,273	
Lorain	88,253	110,795	47,561	10,020	
Lucas	58,816	5,839	32,192	2,159	
Madison	90,985	105,242	34,650	4,112	
Mahoning	91,018	93,923	53,651	19,245	
Marion	97,593	53,402½	45,774½	2,505	
Medina	84,195	76,705	41,015	1,011	
Meigs	63,827	73,427	70,818	5,250	
Mercer	117,224	11,903	93,583	8,320	
Miami	133,233	11,250	41,781	3,318	
Monroe	79,706	85,614	80,158	5,090	
Montgomery	141,615	21,692	42,843	7,729	
Morgan	57,832	89,231	55,511½	2,518½	
Morrow	84,180	70,558	54,322	175	
Muskingum	114,229	214,156	82,644	3,556	
Noble	64,431	103,322	55,177	3,328	
Ottawa	43,372	12,459	27,923	6,467	
Paulding	36,859	2,557	51,449	1,555	
Perry	60,977	96,035	48,513	1,046	
Pickaway	144,645	95,789	67,975	4,916	
Pike	53,754	39,737	80,118	9,724	
Portage	81,562	110,010	53,741	4,863	
Preble	124,092	27,959	59,017	8,252	
Putnam	103,615	8,177	67,067	5,364	
Richland	120,097	34,745	60,893	4,428	
Ross	167,000	112,000	103,500	37,976	
Sandusky	108,663	11,412	56,714	3,560	
Scioto	58,42½	25,273	70,306½	13,446½	
Seneca	177,520	44,813	77,272	2,396	
Shelby	110,454	13,541	63,437	2,414	
Stark	150,254	61,852	50,603	6,348	
Summit	103,129	62,552	31,205	7,547	
Trumbull	102,278	154,114	67,691	1,524	
Tuscarawas	97,449	118,245	67,206	9,827	
Union	91,315	67,200	58,954	1,727½	
Van Wert	85,814	5,533	76,146	6,365	
Vinton	45,653	57,079	53,761	12,703	
Warren	117,687	30,659	37,736	7,023	
Washington	106,763	96,942	112,453	10,418	
Wayne	175,877	62,657½	62,621	5,155½	
Williams	118,290	19,614	71,170	2,249	
Wood	175,931	19,268	121,996	75,390	
Wyandot	113,334	32,609	52,310	2,292	
Totals	8,664,791½	5,603,895½	5,206,342½	586,640½	20

* Owing to the defective reports of many township assessors, the totals of each do not agree with totals in grand duplicate.

NOTE.—For number of acres of taxable lands in each county on grand duplicate page 432.

DAIRY PRODUCTS, DOMESTIC ANIMALS, WOOL. SHEEP KILLED
BY DOGS, Etc.

BUTTER AND CHEESE PRODUCED IN OHIO IN 1877.

Counties.	Butter.	Cheese.
	Pounds.	Pounds.
Adams.....	407,029	260
Allen.....	503,898	2,503
Ashland.....	844,696	484,099
Ashtabula.....	1,094,906	4,550,262
Athens.....	416,142	17,050
Auglaize.....	297,055	100
Belmont.....	750,263	887
Brown.....	535,811	770
Butler.....	600,726	3,760
Carroll.....	590,103	.....
Champaign.....	415,297	74,272
Clarke.....	440,929	1,103
Clermont.....	575,518	100
Clinton.....	393,702	1,534
Columbiana.....	832,110	164,175
Coahocton.....	696,768	300
Crawford.....	649,591	4,420
Cuyahoga.....	765,378	1,174,031
Darke.....	714,036	245
Defiance.....	446,921	117,243
Delaware.....	547,601	5,175
Erie.....	397,029	106,972
Fairfield.....	601,091	50
Fayette.....	242,702	525
Franklin.....	599,284	.....
Fulton.....	554,455	446,668
Gallia.....	424,525	4,141
Geauga.....	831,927	3,898,367
Greene.....	444,178	30
Guernsey.....	712,720	1,380
Hamilton.....	649,964	1,669
Hancock.....	690,459	1,036
Hardin.....	408,008	150
Harrison.....	550,683	178
Henry.....	349,090	.....
Highland.....	492,154	2,019
Hooking.....	329,059	1,475
Holmes.....	581,631	27,770
Huron.....	982,733	553,100
Jackson.....	369,579	750
Jefferson.....	445,710	8,090
Knox.....	660,011	150
Lake.....	362,235	368,125
Lawrence.....	259,620	25
Licking.....	779,017	6,950
Logan.....	447,597	3,479
Lorain.....	833,750	4,438,738
Lucas.....	347,594	8,030
Madison.....	232,043	53,300

BUTTER AND CHEESE—Continued.

Counties.	Butter.	Cheese.
	Pounds.	Pounds.
Mahoning	276,556	23,498
Marion	421,205	1,368
Medina	946,693	1,214,727
Meigs	460,914	17,786
Mercer	406,123	200
Miami	510,591	4,625
Monroe	421,800	300,183
Montgomery	592,567	370
Morgan	485,063	1,410
Morrow	710,152	1,200
Muskingum	958,156	208
Noble	567,658	5,774
Ottawa	203,690	30
Paulding	151,400	100
Perry	516,298	128
Pickaway	368,737	690
Pike	224,938	150
Portage	1,043,542	2,767,793
Preble	525,760	178
Putnam	399,395	60
Richland	821,091	10,626
Ross	324,183	2,034
Sandusky	490,535	700
Scioto	287,537	166
Seneca	747,095	46,002
Shelby	381,982	200
Stark	1,066,253	169,515
Summit	858,329	1,197,064
Trumbull	1,043,915	4,037,326
Tuscarawas	791,981	339,474
Union	431,631	10,570
Van Wert	356,762	846
Vinton	269,421	320
Warren	452,953	2,990
Washington	649,083	13,565
Wayne	1,135,125	63,466
Williams	643,501	94,458
Wood	724,626	160
Wyandot	473,128	39,620
Totals	50,003,162	27,973,066

COMPARATIVE TABLE OF DAIRY PRODUCTS IN OHIO FOR EIGHTEEN YEARS.

Year.	Pounds of butter.	Pounds of cheese.	Year.	Pounds of butter.	Pounds of cheese.
1860	38,440,498	24,816,420	1869	38,793,607	20,520,168
1861	35,492,858	20,637,235	1870	43,020,554	31,321,038
1862	34,065,620	20,752,097	1871	44,994,152	32,391,152
1863	31,121,275	19,130,750	1872	45,413,066	34,403,857
1864	31,141,576	18,097,095	1873	43,533,865	36,666,530
1865	32,450,139	16,947,905	1874	44,335,657	33,123,880
1866	36,344,606	22,197,929	1875	45,634,762	31,224,147
1867	34,833,445	19,965,490	1876	48,415,570	22,358,690
1868	37,605,378	17,614,599	1877	50,003,162	27,973,066

NUMBER AND VALUE OF HORSES, CATTLE, AND MULES IN OHIO IN 1878.

Counties.	Horses.		Cattle.		Mules.	
	Number.	Value.	Number.	Value.	Number.	Value.
Adams	6,313	\$243,401	12,126	\$179,410	359	\$16,610
Allen	8,834	353,656	15,628	172,415	185	7,435
Ashland	8,569	418,650	21,628	323,591	70	4,030
Ashtabula	9,218	415,035	36,045	561,000	73	3,324
Athens	5,420	251,968	14,318	232,904	263	12,326
Auglaize	4,249	242,579	14,169	162,591	324	14,472
Belmont	11,032	512,444	20,931	331,308	464	24,531
Brown	8,532	383,938	13,465	209,511	594	29,152
Butler	11,442	620,147	16,404	357,757	822	53,510
Carroll	4,657	229,713	14,264	200,043	129	5,955
Champaign	10,313	681,252	16,656	234,938	812	22,225
Clarke	9,665	604,615	16,559	391,416	493	26,940
Clermont	8,666	400,345	11,722	196,409	1,036	61,711
Clinton	9,977	515,615	15,494	252,065	613	27,550
Columbiana	8,714	454,090	14,981	375,733	206	8,730
Coshocton	7,614	379,567	19,541	310,734	921	11,376
Crawford	9,128	460,757	19,531	273,441	129	7,315
Cuyahoga	15,275	607,704	20,704	402,327	282	12,185
Darke	13,157	724,198	21,189	293,699	412	29,190
Defiance	5,670	242,206	12,963	136,975	127	5,310
Delaware	8,001	467,336	17,743	342,003	146	7,270
Erie	5,975	266,104	9,082	137,253	53	2,017
Fairfield	9,797	573,453	22,436	421,802	177	10,183
Fayette	6,989	436,395	16,349	412,090	680	34,044
Franklin	15,205	829,469	21,066	411,963	429	26,268
Fulton	6,770	262,267	14,394	164,554	129	5,394
Galia	5,225	260,569	14,270	201,180	566	29,036
Geauga	5,433	249,049	24,494	413,937	58	2,840
Greene	10,988	601,226	17,240	250,447	464	20,614
Guernsey	6,576	246,797	17,689	200,622	143	6,132
Hamilton	10,338	1,037,540	23,959	542,963	2,027	122,945
Hancock	11,066	426,960	21,731	269,188	206	10,265
Hardin	4,076	276,436	15,101	177,711	291	10,300
Harrison	4,921	261,237	13,211	240,200	111	5,560
Henry	5,534	205,782	10,036	19,731	139	5,715
Highland	10,400	420,788	20,221	402,445	732	41,164
Hocking	4,660	199,079	10,616	149,946	229	13,431
Holmes	6,796	299,184	17,215	214,607	91	3,829
Huron	10,297	478,565	24,725	429,596	111	5,313
Jackson	4,258	156,902	15,301	129,013	449	20,806
Jefferson	5,552	290,444	12,907	214,257	110	5,960
Knox	9,413	452,142	19,944	292,235	164	8,800
Lake	4,159	224,754	10,272	179,221	50	2,700
Lawrence	4,435	224,085	11,981	172,603	245	16,336
Licking	11,903	680,048	25,512	527,643	178	11,371
Logan	9,442	425,036	17,099	279,912	335	19,565
Lorain	10,226	464,096	31,477	625,206	228	4,420
Lucas	6,205	275,941	9,236	124,266	159	6,515
Madison	6,262	421,272	20,425	550,096	416	23,169
Mahoning	7,331	374,165	18,526	263,829	176	8,225
Marion	7,527	432,802	15,903	297,012	172	10,442
Medina	7,942	373,730	23,462	203,940	63	3,040
Meigs	5,364	237,184	14,060	192,539	548	26,717
Morcor	7,624	274,716	13,794	135,679	214	7,760
Miami	10,266	696,781	14,422	263,614	290	30,369
Monroe	5,712	221,491	18,614	204,521	329	15,037
Montgomery	13,437	809,182	18,730	300,920	353	23,029
Morgan	8,040	307,450	15,477	249,436	165	9,370

NUMBER AND VALUE OF HORSES, CATTLE, AND MULES IN OHIO IN 1878—

Counties.	Horses.		Cattle.		Mules.
	Number.	Value.	Number.	Value.	
Morrow	7,543	\$431,169	16,402	\$298,003	90
Muskingum	11,140	536,729	29,763	499,541	228
Noble	5,335	234,454	15,633	208,070	156
Ottawa	4,257	206,975	7,202	92,940	47
Paulding	3,643	124,510	6,631	68,716	135
Perry	5,500	245,528	15,632	212,492	231
Pickaway	10,505	558,008	18,933	411,565	478
Pike	5,041	267,358	8,956	170,245	478
Portage	7,886	429,086	29,964	583,779	75
Preble	9,230	626,447	15,515	279,250	362
Putnam	7,395	293,231	14,876	152,936	300
Richland	9,930	512,284	29,501	349,440	214
Ross	11,505	633,289	21,746	494,834	673
Sandusky	9,822	337,667	15,439	186,264	147
Scioto	5,152	256,883	12,048	201,979	669
Seneca	11,604	618,375	20,637	218,136	161
Shelby	8,425	441,588	11,975	177,545	192
Stark	12,996	707,429	29,876	467,965	265
Summit	8,579	503,143	24,139	451,077	178
Trumbull	9,870	454,578	38,375	722,282	247
Tuscarawas	8,681	380,976	25,164	309,367	208
Union	8,723	527,815	14,103	286,353	200
Van Wert	7,014	296,326	13,178	142,023	296
Vinton	3,278	140,361	10,925	147,929	320
Warren	9,752	574,845	13,502	299,726	508
Washington	8,254	379,248	20,633	306,343	260
Wayne	10,665	620,067	29,434	447,495	217
Williams	7,766	316,019	16,002	173,902	143
Wood	10,471	410,139	18,075	184,919	272
Wyandot	6,134	372,607	14,611	208,784	134
Totals	740,200	\$36,771,500	1,568,678	\$25,794,802	27,304

NUMBER AND VALUE OF HOGS AND SHEEP IN OHIO IN 1878.

Counties.	Hogs.		Sheep.	
	Number.	Value.	Number.	Value.
Adams	27,912	\$51,991	11,067	\$22,27
Allen	40,914	59,961	21,921	33,233
Ashland	29,529	56,767	52,023	101,641
Ashtabula	7,646	15,132	24,306	52,536
Athens	16,610	31,353	50,729	143,440
Auglaize	29,426	40,266	13,454	26,673
Belmont	29,591	72,755	122,186	320,748
Brown	36,108	61,602	12,795	26,876
Butler	52,706	190,020	9,048	22,308
Carroll	10,913	22,303	119,394	247,217
Champaign	40,660	106,778	31,206	92,229
Clarke	32,026	67,718	46,335	128,073
Clermont	34,509	62,661	8,661	20,970
Clinton	45,974	147,230	25,637	68,008
Columbiana	15,545	40,551	121,204	263,048
Coshocton	96,367	59,534	110,194	236,174
Crawford	35,679	63,926	52,514	118,027
Cuyahoga	7,121	21,164	18,737	43,547
Darke	61,605	110,694	7,727	18,067
Defiance	14,608	26,271	11,672	17,769
Delaware	31,694	60,187	101,683	215,606
Eric	9,925	18,312	22,654	43,262
Fairfield	41,207	107,367	26,025	58,119
Fayette	60,619	168,311	20,770	49,870
Franklin	62,229	143,277	33,174	84,951
Fulton	19,138	29,512	27,700	31,618
Gallia	20,701	34,307	12,552	24,263
Geauga	4,113	10,781	19,641	56,433
Greene	49,306	149,214	24,244	63,104
Guernsey	14,905	26,701	146,060	205,189
Hamilton	31,931	100,404	5,316	12,163
Hancock	47,695	71,416	37,004	66,121
Hardin	31,492	45,351	34,273	67,174
Harrison	10,390	20,023	176,402	427,631
Henry	13,000	19,137	8,002	9,493
Highland	69,761	144,451	17,394	39,743
Hocking	13,453	25,706	27,500	50,494
Holmes	28,740	48,124	39,476	62,664
Huron	19,661	41,588	60,643	96,666
Jackson	16,540	21,902	10,006	13,496
Jefferson	11,660	31,875	117,303	262,069
Knox	33,769	69,649	131,120	207,767
Lake	1,000	12,035	17,619	30,226
Lawrence	19,639	34,010	6,626	8,946
Licking	38,761	97,393	700,544	461,126
Logan	14,001	72,092	53,241	101,423
Lorain	13,235	27,091	40,666	90,674
Lucas	10,660	14,593	8,058	12,177
Madison	32,361	96,394	64,403	163,473
Mahoning	10,141	33,320	60,422	171,667
Marion	31,732	74,544	71,392	160,339
Medina	12,425	33,294	53,264	119,626
Meigs	15,124	23,828	26,561	50,107
Mercer	32,905	44,643	11,200	16,401
Miami	30,571	63,497	9,672	27,601
Monroe	15,071	27,021	23,125	49,912
Montgomery	39,617	104,291	4,527	11,164
Morgan	15,791	32,586	69,133	190,603
Morrow	20,691	49,347	106,663	239,334

NUMBER AND VALUE OF HOGS AND SHEEP--Continued.

Counties.	Hogs.		Sheep.	
	Number.	Value.	Number.	Value.
Muskingum.....	29,872	\$75,184	137,294	\$336,097
Noble	16,788	33,605	54,579	110,440
Ottawa	11,643	20,929	15,912	24,629
Paulding	6,634	10,492	3,673	4,327
Perry	16,660	36,481	61,745	129,370
Pickaway	45,337	127,577	16,446	37,037
Pike	19,889	46,721	7,349	17,110
Portage	9,162	28,095	41,394	122,467
Preble.....	45,214	141,177	9,722	29,129
Putnam	31,896	59,630	13,252	20,557
Richland	37,834	86,072	56,363	131,008
Ross	55,075	156,829	11,876	28,183
Sandusky	25,429	38,883	27,742	39,625
Scioto	17,374	42,448	5,519	10,275
Seneca	41,859	97,628	57,621	86,078
Shelby	27,948	54,942	13,383	30,025
Stark	33,880	83,485	56,329	127,950
Summit	14,307	39,985	23,916	60,244
Trumbull	9,555	22,975	51,412	149,786
Tuscarawas.....	22,645	43,886	86,923	197,553
Union	33,523	88,346	73,561	182,237
Van Wert.....	24,918	39,975	9,430	16,757
Vinton	9,313	15,270	22,750	49,227
Warren	39,610	141,067	17,018	46,892
Washington	18,553	39,827	51,748	138,193
Wayne	37,538	84,583	41,937	91,159
Williams	22,528	35,879	22,707	43,530
Wood	28,013	43,308	19,431	24,188
Wyandot	30,730	53,094	64,019	117,257
Totals.....	2,341,411	\$5,464,465	3,909,604	\$8,578,123

SECRETARY OF STATE.

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WOOL PRODUCED, AND SHEEP KILLED AND INJURED BY DOGS IN OHIO IN 1877.

Counties.	Wool.	Sheep killed by dogs.		Sheep injured by dogs.		Aggregate amt. of injury to sheep by dogs.
	Pounds shorn.	No.	Value.	No.	Estimate of injury.	
Adams	38,165	150	\$413 00	25	\$52 00	\$465 00
Allen	68,373	347	826 00	175	175 00	1,216 00
Ashland	184,363	255	626 00	200	419 00	1,405 00
Ashtabula	103,826	267	1,261 00	143	398 00	1,659 00
Athens	220,440	302	876 00	233	525 00	1,401 00
Auglaize	38,260	309	814 00	155	179 00	993 00
Belmont	519,065	504	1,802 00	157	347 00	2,149 00
Brown	40,399	244	632 00	63	142 00	920 00
Butler	32,221	560	801 00	26	812 00	1,619 00
Carroll	446,175	335	1,256 00	340	828 00	2,084 00
Champaign	157,357	220	924 00	74	154 00	1,078 00
Clarke	188,440	208	778 00	211	465 00	1,141 00
Clermont	25,820	119	335 00	33	58 00	391 00
Clinton	60,674	228	852 00	346	490 00	1,342 00
Columbiana	474,313	683	2,227 00	361	1,050 00	3,277 00
Coshocton	96,013	446	1,206 00	225	374 00	1,580 00
Crawford	199,269	440	1,252 00	468	732 00	1,984 00
Cuyahoga	70,608	224	640 00	62	124 00	764 00
Darke	12,281	200	530 00	100	121 00	711 00
Defiance	38,301	116	225 00	57	69 00	354 00
Delaware	402,092	370	1,113 00	546	602 00	1,721 00
Eric	96,637	124	300 00	154	121 00	421 00
Fairfield	96,342	524	1,942 00	722	514 00	2,456 00
Fayette	71,721	377	1,145 00	1,431	595 00	1,740 00
Franklin	193,411	546	3,027 00	127	302 00	3,329 00
Fulton	199,605	265	511 00	126	116 00	626 00
Gallia	34,022	311	852 00	75	139 00	991 00
Geauga	76,892	118	475 00	75	122 00	603 00
Greene	126,005	347	1,128 00	342	795 00	1,923 00
Guernsey	610,563	307	924 00	262	432 00	1,432 00
Hamilton	14,285	242	1,010 00	72	102 00	1,112 00
Hancock	122,220	393	1,067 00	247	670 00	1,637 00
Hardin	115,777	465	922 00	246	552 00	1,474 00
Harrison	850,614	227	719 00	264	531 00	1,250 00
Henry	33,228	227	597 00	112	159 00	756 00
Highland	47,612	390	1,164 00	100	190 00	1,354 00
Hocking	102,822	359	1,020 00	172	332 00	1,361 00
Holmes	134,457	277	961 00	301	521 00	1,482 00
Huron	290,410	242	757 00	202	322 00	1,132 00
Jackson	29,350	232	565 00	70	62 00	627 00
Jefferson	458,334	355	1,245 00	133	354 00	1,599 00
Knox	548,332	408	1,532 00	369	472 00	2,004 00
Lake	63,599	103	299 00	41	79 00	369 00
Lawrence	9,141	109	241 00	21	23 00	264 00
Licking	970,362	459	1,222 00	594	947 00	2,169 00
Logan	190,976	323	907 00	274	474 00	1,381 00
Lorain	166,995	376	1,052 00	152	306 00	1,358 00
Lucas	25,268	484	1,223 00	176	259 00	1,482 00
Madison	210,132	385	1,263 00	125	317 00	1,580 00
Mahoning	259,359	314	1,237 00	403	681 00	1,918 00
Marion	274,353	345	1,054 00	345	459 00	1,513 00
Medina	207,671	221	1,164 00	192	437 00	1,601 00
Meigs	66,464	125	303 00	62	82 00	385 00
Mercer	33,414	202	466 00	115	242 00	714 00
Miami	33,312	224	758 00	116	198 00	956 00
Monroe	78,029	220	522 00	260	361 00	959 00
Montgomery	12,67	43	90 00	43	90 00	539 00

WOOL PRODUCED, AND SHEEP KILLED AND INJURED BY DOGS—Continued.

Counties.	Wool.	Sheep killed by dogs.		Sheep injured by dogs.		Aggregate am't of injury to sheep by dogs.
	Pounds shorn.	No.	Value.	No.	Estimate of injury.	
Morgan	232,138	282	\$856 00	158	\$289 00	\$1,145 00
Morrow	444,181	290	907 00	265	495 00	1,402 00
Muskingum	554,695	469	1,723 00	461	719 00	2,442 00
Noble	195,957	226	637 00	293	464 00	1,101 00
Ottawa	48,716	282	717 00	146	222 00	939 00
Paulding	9,721	84	248 00	17	23 00	271 00
Perry	282,373	391	1,241 00	190	339 00	1,580 00
Pickaway	44,461	325	816 00	549	332 00	1,148 00
Pike	21,315	198	508 00	66	88 00	596 00
Portage	145,476	220	734 00	289	492 00	1,226 00
Preble	35,538	273	951 00	103	244 00	1,195 00
Putnam	38,751	390	1,444 00	100	156 00	1,600 00
Richland	213,633	319	938 00	254	450 00	1,388 00
Ross	33,964	452	726 00	69	115 00	840 00
Sandusky	95,163	372	879 00	281	453 00	1,332 00
Scioto	9,240	262	540 00	28	63 00	602 00
Seneca	212,257	284	647 00	226	196 00	843 00
Shelby	47,738	342	953 00	124	224 00	1,182 00
Stark	179,567	466	1,343 00	238	516 00	1,950 00
Summit	88,450	246	943 00	152	248 00	1,191 00
Trumbull	193,553	338	1,445 00	610	1,370 00	2,815 00
Tuscarawas	328,041	479	1,756 00	192	430 00	2,186 00
Union	277,440	241	644 00	117	223 00	867 00
Van Wert	28,046	218	525 00	88	137 00	665 00
Vinton	77,492	241	637 00	35	50 00	687 00
Warren	43,999	275	988 00	155	303 00	1,291 00
Washington	196,763	371	1,058 00	207	285 00	1,343 00
Wayne	153,670	363	1,273 00	422	672 00	1,945 00
Williams	82,751	161	455 00	72	182 00	637 00
Wood	69,134	580	1,563 00	173	198 00	1,761 00
Wyandot	263,422	232	575 00	196	516 00	1,091 00
Totals	15,747,040	27,393	\$83,820 00	19,025	30,984 00	114,804 00

NUMBER AND VALUE OF DOGS IN OHIO IN 1878.

Counties.	Dogs for Taxation.				
	Over three months old— number sworn to.	Listed at \$50 and under—value not sworn to.		Valuation exceeding \$50.	
		No.	Value.	No.	Value.
Adams	741	72	\$470	2,224	\$113,632
Allen	2,544	95	2,572	426	21,846
Ashland	559	29	164	2,247	115,850
Ashtabula	485	52	325	2,036	103,444
Athens	913	4	55	2,049	104,998
Auglaize	1,841	81	385	1,287	67,774
Belmont	519	70	990	4,485	228,824
Brown	1,479	206	664	1,795	80,997
Butler	794	472	4,352	2,914	155,363
Carroll	214	87	700	2,085	209,260
Champaign	1,827	70	1,230	1,062	60,165
Clarke	716	159	2,000	2,732	140,340
Clermont	1,447	112	752	142	107,860
Clinton	1,365	266	1,532	1,401	78,071
Columbiana	1,044	152	2,416	3,044	164,626
Coshocton	460	36	837	3,152	177,192
Crawford	1,702	267	6,561	1,387	78,250
Cuyahoga	4,459	538	3,949	2,695	143,933
Darke	2,858	241	2,724	2,514	134,824
Defiance	1,495	104	518	647	3,217
Delaware	614	169	843	1,847	95,336
Erie	1,144	211	825	510	26,900
Fairfield	820	22	306	3,792	209,306
Fayette	1,591	96	924	1,188	61,267
Franklin	5,999	-----	-----	-----	135,979
Fulton	1,442	123	855	637	33,157
Gallia	791	41	181	3,313	160,070
Geauga	-----	215	351	1,141	61,461
Greene	931	82	1,315	3,151	161,950
Guernsey	393	3	70	2,621	135,013
Hamilton	7,402	-----	19,517	-----	114,060
Hancock	1,662	67	693	1,644	90,396
Hardin	1,930	57	618	551	24,901
Harrison	371	65	690	1,860	106,936
Henry	1,585	24	396	710	38,066
Highland	1,027	41	492	2,587	132,509
Hocking	445	259	332	2,103	107,967
Holmes	872	112	3,786	1,995	103,188
Huron	716	141	1,546	2,157	112,381
Jackson	828	6	96	2,160	108,049
Jefferson	984	63	900	1,966	114,810
Knox	644	95	750	2,541	113,431
Lake	135	6	150	894	47,406
Lawrence	2,843	176	926	1,393	71,174
Licking	1,078	263	2,819	3,171	160,306
Logan	2,242	208	1,124	913	50,749
Lorain	265	46	409	3,009	150,078
Lucas	2,659	251	2,474	354	18,827
Madison	424	21	404	1,682	74,641
Mahoning	1	-----	7	2,495	130,379

NUMBER AND VALUE OF DOGS IN OHIO IN 1878—Continued.

Counties.	Dogs for Taxation.				
	Over three months old, number sworn to.	Listed at \$50 and under, value not sworn to.		Valuation exceeding \$50.	
		No.	Value.	No.	Value.
Marion	662	35	\$680	1,694	\$93,877
Medina	217	86	933	2,156	108,364
Meigs	1,778	44	662	1,621	82,938
Mercer	2,548	163	2,240	126	6,226
Miami	1,802	106	1,461	2,299	124,395
Monroe	3,878	20	339	3,378	170,935
Montgomery	2,380	428	5,610	3,919	208,810
Morgan	441	15	109	2,124	107,180
Morrow	467	63	1,266	1,776	96,813
Muskingum	1,447	334	1,930	3,981	201,142
Noble	890	-----	-----	1,892	98,657
Ottawa	1,055	176	1,011	641	33,244
Paulding	1,403	96	767	49	2,654
Perry	470	-----	-----	2,461	125,511
Pickaway	1,083	48	1,148	3,110	164,781
Pike	556	12	92	2,468	124,206
Portage	881	58	653	1,672	87,554
Preble	825	121	661	2,269	125,763
Putnam	2,432	83	830	436	22,249
Richland	432	141	561	2,910	165,303
Ross	1,063	108	1,581	3,657	197,422
Sandusky	1,416	51	933	1,302	76,866
Scioto	1,695	535	4,651	1,034	51,397
Seneca	1,290	122	995	2,182	111,688
Shelby	1,485	104	543	1,223	95,437
Stark	1,177	330	2,200	4,944	267,990
Summit	950	90	1,126	1,778	100,375
Trumbull	738	55	764	3,725	191,567
Tuscarawas	1,057	138	832	3,438	177,900
Union	1,110	497	6,388	771	39,886
Van Wert	2,685	280	1,395	297	15,565
Vinton	981	20	102	1,038	56,065
Warren	1,217	277	1,145	1,654	85,777
Washington	1,318	156	1,253	3,525	179,415
Wayne	853	97	1,526	3,796	202,760
Williams	1,351	227	1,411	783	35,489
Wood	2,538	139	1,475	999	52,077
Wyandot	538	59	785	1,971	114,603
Totals	119,836	11,542	\$129,143	172,543	\$9,344,878

VALUATION AND TAXATION OF DOGS, IN ACCORDANCE WITH THE ACT OF MAY 5, 1877.
O. L., Vol. 74, p. 177.

Counties.	Value of dogs not included in chattel property.	Taxes on dogs by valuation.	Taxes on dogs at \$1.00 per head.	Total taxes on dogs not included in other special taxes.
Adams	\$113,877	\$1,968	\$723	\$2,751
Allen	22,648	469	2,513	2,983
Ashtabula	115,963	1,242	474	1,716
Ashtabula	101,406	1,250	566	1,816
Athens	104,825	1,756	980	2,736
Auglaize	68,778	1,025	1,810	2,835
Belmont	229,778	2,869	415	3,284
Brown	81,874	1,250	2,130	3,380
Butler	158,847	1,550	1,259	2,809
Carroll	107,820	1,089	146	1,235
Champaign	61,395	573	1,914	2,487
Clarke	142,322	1,391	877	2,268
Clermont	108,011	1,339	1,640	2,979
Clinton	75,080	790	1,583	2,373
Columbiana	168,205	1,278	1,062	3,340
Coshocton	178,445	1,821	532	2,353
Crawford	85,419	939	2,007	2,946
Cuyahoga	146,374	1,733	5,843	7,576
Darke	147,580	1,870	3,104	4,974
Defiance	33,225	673	1,591	2,264
Delaware	96,062	980	774	1,754
Erie	28,150	1,448	449	1,897
Fairfield	207,840	2,389	799	3,188
Fayette	62,264	833	1,654	2,487
Franklin	133,452	1,274	3,414	4,688
Fulton	34,013	645	1,505	2,150
Gallia	157,666	2,097	809	2,906
Geauga	61,268	457	241	698
Greene	162,663	1,875	937	2,812
Guernsey	135,043	1,604	417	2,021
Hamilton	134,137	1,437	5,455	6,892
Hancock	91,081	1,189	1,759	2,948
Hardin	25,519	438	2,051	2,489
Harrison	117,715	1,136	302	1,438
Henry	38,526	739	1,594	2,333
Highland	133,252	1,407	1,075	2,482
Hocking	107,909	1,502	704	2,206
Holmes	107,092	1,313	977	2,290
Huron	114,561	1,283	858	2,149
Jackson	108,049	1,748	976	2,721
Jefferson	115,580	1,077	1,052	2,124
Knox	130,353	1,357	744	2,109
Lake	46,663	442	106	541
Lawrence	72,265	1,156	3,206	4,188
Licking	169,152	1,795	1,212	3,002
Logan	52,268	643	1,910	2,557
Lorain	154,092	1,568	416	1,983
Lucas	20,810	357	3,086	3,444
Madison	74,856	814	1,019	1,833
Mahoning	131,578	1,338	1,318	2,713
Marion	94,042	939	901	1,649
Medina	110,088	918	375	1,290

VALUATION AND TAXATION OF DOGS—Continued.

Counties.	Value of dogs not included in chattel property.	Taxes on dogs by valuation.	Taxes on dogs at \$1.00 per head.	Total taxes on dogs not included in other special taxes.
Meigs	\$50,128	\$1,107	\$1,802	\$2,909
Mercer	8,669	178	2,749	2,927
Miami	125,856	1,622	1,897	3,551
Monroe	173,475	2,528	508	3,036
Montgomery	205,310	2,382	2,684	5,066
Morgan	107,548	1,458	484	1,942
Morrow	99,755	940	555	1,495
Muskingum	202,213	2,443	1,829	4,272
Noble	96,572	1,139	906	2,045
Ottawa	34,255	789	1,051	1,840
Paulding	3,348	101	1,479	1,598
Perry	111,886	1,632	373	2,005
Pickaway	163,229	1,823	1,131	2,954
Pike	124,430	1,778	611	2,389
Portage	88,216	822	966	1,784
Preble	124,365	1,232	913	2,145
Putnam	22,314	398	2,434	2,832
Richland	166,293	1,536	615	2,181
Ross	199,088	2,370	1,163	3,533
Sandusky	77,666	1,087	1,532	2,619
Scioto	55,869	1,507	1,841	3,348
Seneca	110,753	1,359	1,415	2,674
Shelby	96,677	1,447	1,420	2,867
Stark	256,371	2,595	1,469	4,064
Summit	97,810	1,090	1,029	2,119
Trumbull	190,215	1,899	837	2,736
Tuscarawas	178,589	2,224	1,247	3,471
Union	46,279	542	1,513	2,055
Van Wert	16,724	336	2,539	2,876
Vinton	52,786	874	957	1,831
Warren	74,343	727	1,329	2,056
Washington	182,886	2,365	1,496	3,861
Wayne	204,293	2,049	965	3,014
Williams	35,319	427	1,697	2,123
Wood	53,190	814	3,685	4,499
Wyandot	112,225	1,449	508	1,959
Totals	\$9,463,546	\$114,074	\$122,684	\$236,758

DOMESTIC ANIMALS DIED FROM DISEASE IN OHIO IN 1877.

Counties.	Hogs.		Sheep.	
	Number.	Value.	Number.	Value.
Adams	1,646	\$6,352	180	\$425
Allen	3,955	13,181	318	922
Ashland	369	1,551	534	1,330
Ashtabula	378	2,541	720	2,482
Athens	320	931	504	1,310
Auglaize	8,402	25,715	373	800
Belmont	520	1,917	2,030	4,490
Brown	6,675	30,211	295	779
Butler	9,655	43,659	353	1,171
Carroll	112	717	730	3,115
Champaign	3,393	14,660	607	1,384
Clarke	8,125	37,119	880	2,339
Clermont	3,158	14,908	209	574
Clinton	19,801	28,258	647	1,288
Columbiana	282	1,646	1,354	3,468
Coshocton	1,853	6,785	1,186	2,617
Crawford	4,050	18,106	877	2,359
Cuyahoga	320	1,529	287	796
Darke	9,872	34,758	217	575
Defiance	3,249	10,704	347	735
Delaware	730	3,135	1,510	3,252
Erie	391	2,041	551	1,138
Fairfield	8,498	39,054	428	1,215
Fayette	20,155	78,233	288	867
Franklin	14,041	63,539	1,092	2,673
Fulton	543	2,576	625	1,126
Gallia	1,828	6,150	237	560
Geauga	108	742	369	1,274
Greene	9,496	42,955	522	1,549
Guernsey	474	1,508	1,580	3,403
Hamilton	3,731	15,608	144	1,172
Hancock	8,642	29,016	670	1,357
Hardin	4,871	21,215	517	1,089
Harrison	76	458	1,881	5,085
Henry	2,689	10,328	278	593
Highland	4,412	18,977	426	1,053
Hocking	1,605	5,876	477	1,129
Holmes	955	3,549	455	1,277
Huron	629	3,733	1,281	2,911
Jackson	463	1,242	205	347
Jefferson	63	704	1,050	2,184
Knox	1,635	5,331	1,257	3,341
Lake	99	810	166	496
Lawrence	2,128	6,481	196	349
Licking	555	2,970	3,761	7,606
Logan	5,919	21,676	782	1,920
Lorain	386	1,958	596	2,190
Lucas	1,003	3,950	176	449
Madison	442	107,681	1,074	2,619
Mahoning	351	1,694	1,017	2,490
Marion	3,182	14,523	790	1,890
Medina	248	1,322	863	2,408
Meigs	515	2,393	278	595
Mercer	8,537	20,519	237	573
Miami	5,039	21,692	256	677
Monroe	415	1,514	493	1,114
Montgomery	6,531	30,552	130	462
Morgan	192	898	551	1,220
Morrow	272	1,416	1,082	2,631

DOMESTIC ANIMALS DIED FROM DISEASE IN OHIO IN 1877—Continued.

Counties.	Hogs.		Sheep.	
	Number.	Value.	Number.	Value.
Muskingum	1,637	\$6,246	1,764	\$3,907
Noble	341	1,458	682	1,635
Ottawa	539	1,606	362	656
Panlding	2,701	8,538	350	606
Perry	434	1,493	1,301	2,979
Pickaway	15,641	68,100	336	915
Pike	4,093	14,298	264	640
Portage	252	1,316	732	2,266
Preble	11,858	55,812	246	794
Putnam	5,847	21,382	582	1,513
Richland	1,744	5,826	598	1,660
Ross	11,918	45,369	287	589
Sandusky	1,187	4,761	710	1,605
Scioto	3,042	12,853	168	372
Seneca	1,237	4,319	557	1,333
Shelby	5,969	14,916	349	670
Stark	621	2,550	1,100	2,868
Summit	135	772	195	652
Trumbull	298	1,743	1,140	3,815
Tuscarawas	445	1,813	984	2,759
Union	5,015	23,532	1,153	3,019
Van Wert	5,997	20,339	233	518
Vinton	364	1,409	301	692
Warren	9,751	44,823	532	1,740
Washington	471	1,947	749	2,550
Wayne	620	2,709	615	1,868
Williams	1,069	3,531	257	634
Wood	2,925	9,780	541	1,195
Wyandot	2,074	8,007	1,053	2,207
Totals	306,349	\$1,334,655	59,106	\$148,700

DOMESTIC ANIMALS DIED FROM DISEASE IN OHIO IN 1877—Continued.

Counties.	Cattle.		Horses.	
	Number.	Value.	Number.	Value.
Adams	105	\$2,315	74	\$3,956
Allen	175	3,462	134	8,506
Ashland	152	3,619	13	6,635
Ashtabula	392	10,071	143	9,194
Athens	132	2,357	69	3,579
Auglaize	175	2,618	176	11,348
Belmont	263	6,883	131	8,107
Brown	144	3,609	144	9,377
Butler	260	7,479	236	19,271
Carroll	132	3,494	66	5,174
Champaign	154	4,107	134	10,347
Clarke	159	4,705	145	10,718
Clermont	207	4,899	152	8,407
Clinton	197	4,634	174	11,703
Columbiana	160	5,004	111	6,930
Coshocton	184	4,370	87	93
Crawford	209	3,650	135	8,087
Cuyahoga	247	7,554	104	7,518
Darke	227	4,874	190	13,749
Defiance	230	3,471	144	7,263
Delaware	132	3,694	108	6,360
Erie	111	2,492	79	5,775
Fairfield	161	4,528	119	8,702
Fayette	119	4,095	101	7,419
Franklin	189	6,189	161	12,133
Fulton	165	3,883	127	8,340
Gallia	339	3,652	115	6,291
Geauga	158	4,904	41	2,980
Greene	177	4,279	165	14,312
Guernsey	161	3,409	57	3,222
Hamilton	284	9,212	220	12,880
Hancock	188	4,293	168	11,125
Hardin	121	2,540	121	7,220
Harrison	124	3,765	44	4,365
Henry	303	5,314	104	6,345
Highland	171	4,804	158	9,280
Hocking	116	2,029	74	3,675
Holmes	136	3,172	137	8,576
Huron	277	7,653	178	14,400
Jackson	106	1,466	51	2,300
Jefferson	66	1,933	48	3,490
Knox	125	3,144	70	5,667
Lake	94	2,751	47	4,196
Lawrence	133	2,299	134	8,409
Licking	145	3,393	94	6,630
Logan	174	4,125	146	9,090
Lorain	323	10,296	159	9,029
Lucas	147	3,620	65	4,596
Madison	163	4,922	123	14,224
Mahoning	152	4,140	79	4,460
Marion	182	4,838	192	14,545
Medina	189	6,173	85	5,707
Meigs	103	2,459	79	3,217
Mercer	234	3,378	244	12,565
Miami	204	5,371	144	12,400
Monroe	144	2,979	69	3,735
Montgomery	292	7,025	272	14,554
Morgan	105	2,045	61	3,639
Morrow	118	2,727	73	5,415

DOMESTIC ANIMALS DIED FROM DISEASE IN OHIO IN 1877—Continued.

Counties.	Cattle.		Horses.	
	Number.	Value.	Number.	Value.
Muskingum	187	\$4,272	87	\$6,071
Noble	195	4,022	67	3,920
Ottawa	147	2,058	91	4,764
Paulding	348	5,584	255	13,698
Perry	121	2,545	73	4,650
Pickaway	241	6,616	171	14,621
Pike	140	3,228	110	4,855
Portage	252	7,755	91	6,408
Preble	193	4,088	151	13,065
Putnam	344	6,243	189	10,775
Richland	163	3,686	143	11,165
Ross	164	4,234	139	8,710
Sandusky	192	4,245	136	8,890
Scioto	141	2,833	177	8,550
Seneca	229	4,669	218	16,425
Shelby	121	2,287	121	8,500
Stark	360	8,204	185	12,742
Summit	179	5,480	70	5,040
Trumbull	340	10,057	96	5,400
Tuscarawas	185	3,983	89	5,883
Union	98	2,820	139	13,535
Van Wert	252	3,937	208	11,681
Vinton	76	2,105	33	1,589
Warren	214	6,368	189	14,731
Washington	161	3,366	111	5,867
Wayne	284	6,158	205	15,194
Williams	104	2,031	76	4,905
Wood	251	4,885	168	11,275
Wyandot	131	3,133	124	9,458
Totals	16,420	\$280,481	11,047	\$747,213

LOSSES OCCASIONED BY DISEASES OF DOMESTIC ANIMALS.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY N. S. TOWNSEND.

The following paper on the losses occasioned by diseases of domestic animals is an attempt to answer these questions. Why do so many domestic animals become sick? Why do so many sick animals die? And what may be done to diminish such losses?

In accordance with statistical requirements for current year, all stock-owners at the time of the annual assessment were required to report the number and value of all horses, cattle, sheep, and swine, lost by disease during the year preceding. In obedience to this requirement the following losses were reported: Horses, 11,047, valued at \$747,213; cattle, 16,420, valued at \$280,047; sheep, 59,126, valued at \$148,700, and hogs, 306,349, valued at \$1,334,655. An aggregate loss exclusive of mules which were not reported of \$2,511,049, this is near two per cent. of the assessed value of all the horses, one and a quarter per cent. of the cattle, one and three-quarters per cent. of the sheep, and over twenty-four per cent. of the value of the swine. If it be true, as is sometimes stated, that live stock in this State are assessed at not more than two-thirds of their actual value, then the live stock of the State assessed at \$73,131,116, is actually worth \$117,156,674, and in the same ratio, the losses during the year amounted to \$3,766,573. Since the losses sustained by owners of horses, cattle, and sheep, were less than two per cent. of the value of these animals, it is safe to infer, that they have suffered from no epizootic, and that hogs only have been subject to unusual mortality.

WHY DO SO MANY DOMESTIC ANIMALS BECOME SICK?

Domestic animals are subjected to unnatural conditions, as well as to much hard treatment; to these causes may be attributed much of their sickness. Horses are driven hard when the weather is extremely cold, the necessarily increased amount of cold air taken into the lungs, may of itself, be enough to produce diseases. After hard driving, horses are often allowed to stand only partially protected, or wholly unprotected

from the cold; the result is likely to be inflammation of the lungs, or some other disease of the respiratory organs. Horses are frequently kept fast too long, then they are overfed or otherwise fed improperly, and hence, colic, indigestion, or inflammation of the stomach or bowels. Then what numberable lamenesses come from over-driving, over-work, or unskillful shoeing. A valuable cow in full flesh may bring a calf, and be allowed soon after to drink at a brook or spring; drinking freely of cold water at such a time may cause a chill, and this be followed by parturient fever and death in a few days. The owner attributes the fever to septic absorption; this may be true, but it may be equally true that one or two pails full of water of moderate temperature would have prevented the loss. Sheep are sometimes shorn while the nights are too cold, although the days may be warm enough, and many take pleurisy or inflammation of the lungs in consequence. In 1866, a succession of cold storms at shearing time destroyed a great many thousand sheep in Ohio, almost all of which might have been saved if shearing had been delayed, or sufficient shelter and protection had been afforded. The contagion of cholera is believed by many to be generated in the intestinal canal, and to be propagated by the evacuations of diseased animals; yet how often farmers take pains to secure clean quarters for their swine, even after cholera has made its appearance. How entirely the natural instincts and mode of life of the hog are changed when his rooting is stopped and he is fed exclusively on corn, and converted into a lard and pork factory.

Much sickness among animals, and loss to owners has heretofore occurred in Ohio from the spread of contagious diseases, owing to the deficiency of proper sanitary legislation. Only at the last session of the General Assembly was an act passed to prevent the spread of Texas fever. A year before, a Columbus butcher hired cattle pastured a few miles from the city, at the appointed time the cattle were brought to the city and slaughtered for beef, and, probably, no one suspected that they could spread disease. But when the farmer on whose land these cattle were pastured afterwards turned his own cattle upon the same pasture, he soon lost sixty good steers from Texas fever. Since 1857, there has been upon the statute book a law to prevent the spread of foot-rot among the flock of Ohio; before that time the value of sheep was often seriously reduced by this disease. The epizootic influenza that destroyed or affected so many horses in 1872 and 1873, was not prevented or restrained by sanitary legislation. A year or two since, there was an investigation of hog cholera, but it led to no action. In this State we have no commission existing whose duty it is to inquire promptly into the facts of any epizootic outbreak with authority after allowing full or partial compensation to

the owner to destroy all animals liable to spread the contagion. Such provision has been made by several European governments and is found to be good economy.

WHY DO SO MANY SICK ANIMALS DIE?

Because sick animals in Ohio receive little appropriate medical or surgical treatment. Whatever the disease, many sick animals receive absolutely no treatment; the owner does not understand the disease, does not know what to do, and, perhaps wisely, does nothing. In another case, the owner of a sick animal consults all his neighbors, and finally resolves on something, after the opportunity of arresting the disease at its outset by a timely remedy has already passed, not realizing that late treatment is practically no treatment. Still worse is the treatment some animals receive. A man, for example, has a sick cow; one neighbor calls the disease "loss of cud;" another thinks it is "hollow horn," and a third believes it is "worm in the tail;" for those imaginary diseases every kind of nostrum is recommended. If the cow dies, no thorough examination is made to find out what the disease really was; each neighbor adheres to his original opinion, and nothing is learned for the management of similar cases in future. It may be that an animal is known to have some form of disease; the owner of the animal is also the owner of a work on veterinary medicine, but unfortunately he may not be accustomed to examine the pulse, has no means to ascertain the temperature, and no skill in judging of the stage of the disease, or of the condition of his patient. He gives what his book advises, and what would be the right thing in a particular stage of the disease, but which at another stage may be the worst thing possible. One difference between an intelligent veterinarian and a person who is not intelligent on the subject of disease, is this: the former prescribes for the condition of his patient irrespective of the name of the disease, while the latter prescribes for the disease by name irrespective of the condition. Some farmers make the mistake of supposing that all the veterinary help they require can be obtained from the columns of a newspaper, but unless a disease is trivial, or has become chronic, too much time is likely to be lost before this method can be made available. Few farmers can so describe a case that a veterinarian can obtain a correct idea of the actual condition of an animal, or if that were done, there is no assurance that the condition will remain unchanged until a prescription finally appears in another number of the paper. No doubt much valuable information on veterinary topics is given through agricultural papers, but this is rather applicable to future than to present cases. If a farmer's wife or child were taken

sick, he would not sit down and describe the case to the editor of weekly paper, and expect the editor to refer the matter to a doctor, without compensation, is to return a prescription to the editor, with the whole correspondence, may appear in the next weekly issue. The plan of taking an agricultural paper, at one or two dollars a year, with the expectation of having veterinary prescriptions into the gain, has an aspect of folly and stinginess that will not bear inspection.

HOW MAY SUCH LOSSES BE DIMINISHED?

By the prompt employment of skillful veterinarians, wherever they can be found; a skillful and not expensive operation may save the life of a valuable animal, so a timely dose of medicine may prevent serious illness and loss of life. The ordinary operations that all farmers make or procure made, are often so unskillfully managed that the losses within the State in a single year would afford a good living for ten times the present number of competent veterinarians. Perhaps it will be said that we have but few competent veterinarians within the State, and that employment of such as we have is uncertain, and often unsatisfactory. If this be true, it is much to be regretted, but it is equally to be regretted that stock-owners in Ohio are doing so little to secure a better state of things. On the thirtieth day of September last, the American Veterinary College, at 141 West Fifty-fourth street, New York, opened its fourth annual session; the class was gathered from nine States, and the West Indies, but not one student was credited to Ohio. On the first of October the Veterinary College in Montreal opened its annual session. Seven of our States were represented in the class, but Ohio was not among them. A similar school in Toronto began its winter course about the same time, of its class no report has been received. Is it not remarkable that Ohio, with domestic animals assessed at \$78,000,000, and actually worth one-third more, or \$117,000,000, and sustaining annually a reported loss more than 3½ per cent. on the whole amount, should exhibit such lack of interest? Well educated and accomplished veterinarians ought to find appreciation and plenty of encouragement in Ohio; such men are needed, not only to treat disease, but to investigate its hidden sources and to devise better sanitary as well as curative management. Many diseases are already better understood than formerly, but there are others which need more careful investigation.

A better knowledge of the anatomy and physiology of animals on the part of intelligent and enterprising farmers would greatly diminish our losses: not by enabling them to dispense with the services of veterinarians, but by suggesting successful measures for preventing disease. Sanitary science, or the science of preserving health, is as applicable

animals, as to human beings; what relates to the proper drainage of land, the sewerage and ventilation of buildings, pure water, good food, and proper management, if thoroughly understood, would soon tell upon the health of our animals and upon the resources and prosperity of the State. The Ohio State University already gives a good share of attention to such subjects; it remains, perhaps, to be seen how far such teaching will be appreciated.

Many losses might be avoided if all stock owners would constantly keep on hand a few effective remedies, and a few needful instruments to meet promptly the emergencies that will arise. Just as a prudent mother will keep castor oil, hive syrup, and paragoric, or their equivalents; so a prudent farmer should never be without Glauber's salts, salt-petre, tartar emetic, laudanum, and spirits of turpentine. Of instruments, he should have a drenching horn, or long necked bottle, a surgeons' needle, and silk, a fleam or lancet, a trocar and a canula. It would not be difficult for any man, or woman, of good common sense, to learn when, and how, to use some of these things, and so avoid loss, especially that most serious loss, the loss of time.

The most serious losses reported for the year, have been occasioned by hog cholera; the counties of Clinton, Fayette, Franklin, Pickaway, Preble, and Ross, have each lost upwards of ten thousand head of swine; in the counties of Butler, Warren, Darke, and Greene, the loss was near but below that number. It may be difficult for farmers in these counties to change at once the form of farming for which their soil is so well adapted, but to some extent it would seem to be the part of prudence to rely less on the production of their great staples, corn and pork, and to turn their attention to other crops less subject to uncertainty and disappointment.

With the hope of stimulating others to observation and experiment, a disagreeable visit recently made by hog cholera to the University farm, will be reported. Eighty hogs of all sizes were upon the farm, when on the 19th of October, one was observed to have a cough; this hog was immediately isolated, and what was thought to be appropriate treatment given. On the 25th of the month after a cold night, this hog was found dead, and also another of the lot from which the sick one had been taken. These hogs were carefully examined, and it was established beyond doubt that both had died of the disease known as hog cholera. At this time, several other hogs showed unmistakable evidence of having the disease. The whole herd was at once removed into new quarters, and separated into several parcels; twenty-one large hogs were yarded by means of a moveable fence upon a clover field, and a comfortable shelter was provided for them; these hogs, with their shelter, were moved every

day since by changing a part of the fence; another lot of ten small hogs were treated in the same manner upon the same clover field, except that they were not so well provided with shelter. Six large hogs, similar to the lot of twenty-one, appeared to be very sick, and were put under good cover with a small yard, and were not moved afterward. Two of small shoats and pigs were provided with fresh quarters, but have been changed from day to day. Hyposulphite of soda was then obtained and dissolved in all the drink, with which all the hogs were supplied at the rate of one-fourth to one-third of an ounce to every hog or pig; this quantity was given three times a day. None of the hogs were allowed access to the brook running through the farm and through the former yards, under the impression that this brook might have brought the contagion, hog cholera having prevailed higher up the stream. The food of all the hogs was changed wholly, or in part, from corn, to pumpkins; turnips were also given, but were not eaten, except they were cooked. Two hogs died the day after they were moved, and seven since. The result at this date, November 25th, one month from the time they began to die, is as follows: The twenty-one large hogs have all passed safely through the disease; they had cough, constipation, dark colored evacuations and diarrhoea; all have now recovered, have a good appetite and are again eating their full ration of corn. Of the ten smaller hogs put on the clover field, and moved daily in the same manner as the large hogs, four have died, and all of them of inflammation of the lungs, pleurisy, after passing through, and apparently recovering from the inflammation of the bowels. Of the six large hogs that were sickest, one died the day after moving, the remaining five are now well. Several of the pigs and shoats passed through the bowel trouble, but continued cough; to relieve the bad condition of their lungs, tar was used, a tablespoonful for half a dozen hogs, was put into a pail, and boiling water poured upon it; when the tar was partially dissolved, the whole was poured into water or slops, with which the pigs were supplied. To the larger lot of shoats, tar was given as well as the hyposulphite; two have since died; to a smaller lot tar was not given, and seven have died. Altogether, in a month from the first loss, five hogs have died, and thirteen pigs and shoats, with a probability that two or three others which continue to cough will be added to the number. Every one that died was carefully examined; the whole number of hog cholera cases thus examined by the writer within four or five years considerably exceeds one hundred.

We will now give in detail the conclusions drawn from this experience. The first point which appeared to be established, is that the infection of hog cholera may be carried by a stream from an infected

region above, to farms below. Unless this be true, we cannot explain the appearance of the disease on the University farm. Acting on this conviction, all the hogs were removed from yards through which the stream ran; and without shutting the hogs from the brook, they could not have been induced to take the articles we desired to give in their drink.

The removal to fresh quarters from where the disease was first manifested, and to a fresh place day by day, was resorted to, from the conviction that this disease bears a close analogy to typhoid fever of the human subject. The contagion of typhoid is probably generated in the bowels of the diseased, and is communicated through the evacuations to the healthy. The contagion of hog cholera, whether it be analogous to a ferment, or consists of parasitic organisms, carries with it the power of reproducing its like, and whether communicated by direct contact, through the atmosphere, or by a stream, or by all of these, it would seem to be wise to remove animals from all places already reached by the infection. By daily changes from place to place, the twenty-one large hogs thus managed had a clean place every day; their pen was made by portable fence, and its daily change was but little trouble, and at the same time a comfortable shanty, in which they slept and sheltered, was moved with them. This daily change was probably less important than other features of the treatment, for, of the ten smaller hogs which had the same daily change, four died; while, of the six hogs supposed to be sickest, five recovered without removal; they had however the best floor, and most comfortable place for sleeping.

Food.—A diet of corn exclusively is doubtless very fattening to healthy hogs, but in the sick it excites a high grade of fever, and the more fever the more local inflammation, and the greater the danger. Potatoes, beets, and pumpkins are better than corn for sick hogs, but a fluid diet is best of all; milk, sweet or sour, is the best food; or, if it were convenient to make a soup from butcher's offals, this would equally well replace the nitrogen consumed in the course of the disease. In typhoid of the human subject, milk and beef tea constitute the diet, to the exclusion of solid food.

Shelter and Warmth.—All of the hogs to whose death reference has been made, died during the coldest nights. Where the lungs are infiltrated with serum, or solidified like flesh, as they are in many cases in hog cholera, the respiration is proportionably impaired, and the production of animal heat almost impossible; then warmth is life, and cold is death. If hogs are kept sufficiently warm, and the lungs are not too much affected, some will recover, but if subjected to any exposure such will die. Cold water from a creek or spring often abstracts more heat than

can be afforded, hence in warm drink and food there is much less ger. In cold weather a good shelter, with plank floor and plenty of l will greatly favor the recovery of affected animals.

Hyposulphite of soda was given as a disinfectant or anti-zymotic posed to fermentation); it was chosen instead of the sulphite, or b phite of soda, because it is much less expensive, and less disagreeal the taste. If dissolved in sufficient liquid it will be taken volunt where hogs are deprived of other drink. It dissolves equally we water or milk; the latter most effectually conceals the taste. Beside action as an anti zymotic, it is laxative and cooling. and therefore more than one important indication. It did not at once arrest the ease, but it appeared to moderate the fever of the early stages, and l the danger from inflammation and ulceration of the bowels. Ulcer so frequently found in the cœcum and large intestines, and sometime the small, was not found in any of these hogs that took the hyp phite from the beginning of the attack. In later stages of the disea did not relieve the cough, or bad breathing, when these depended o inflammation of the lungs, pleurisy, pericarditis, or pulmonary infiltra The hypsulphite was continued through the month, at the rate c ounce, or nearly an ounce, a day for each hog—those that took most d took most medicine.

Tar was given when the disease had become somewhat chronic, the cough was particularly troublesome. It was selected in prefer to other articles, because it is cheap, usually at hand, and when suffici ly diluted and mixed with the drink, will be taken voluntarily. It good disinfectant, a stimulating expectorant, and diuretic, and there filled several obvious indications. In some cases it gave considerabl lief, and more than justified the trouble of its administration; but it not control the inflammation of the lungs.

Other Remedies—To the hog first sick, after complete isolation, sulph was administered in laxative doses. Afterwards, the difficulty of bre ing and thumps were so troublesome that tartarized antimony was gi —ten grains daily for four days. The difficulty of breathing was so m diminished that recovery was expected, but after a very cold night hog was found dead; on examination, more ulcerations were found the cœcum and ileum in this case than in any that died subsequent Castor oil and calomel were given in a case where the constipation a marked symptom; these had the expected effect of producing free e uations, but did not abate the inflammation of the bowels, of which animal subsequently died. Sulphate of soda (Glauber's salts) was given as a cathartic to several that suffered most from constipation

had no decided advantage over flowers of sulphur, which the hog will take without objections, if mixed with his food or drink. There is, however, no difficulty in giving medicine in liquid form to a tolerably quiet hog; the loop of a small cord is slipped into the mouth, and the snout gently lifted up, then the hog will swallow a pint or more of liquid from a bottle without difficulty, but harshness and force only do harm.

Finally, it seemed to be proven, that the mortality from hog cholera may be greatly diminished by careful, humane, and intelligent treatment. Other measures may be more efficacious than those adopted on the University farm. We had, however, the satisfaction of getting through with the disease with the loss of less than a fourth of the animals affected, and much less than a fourth of the value of the herd. No specific has been discovered, and we doubt if one ever will be; our success was not what we wished, though the result has been more favorable than we feared. It is something to say, that we are not discouraged, but are persuaded that we might profit by some mistakes, and secure a still better result, if ever compelled to make the trial again.

HORTICULTURAL STATISTICS.

APPLES, PEACHES, AND PEARS PRODUCED IN 1877.

Counties.	Orchards.	Apples.	Peaches.	Pears.
	Number of acres.	Number of bushels.	Number of bushels.	Number of bushels.
Adams	4,420	172,708	2,867	2,723
Allen	4,060	26,531	42	189
Ashland	5,020½	26,285	5,561	683
Ashtabula	6,331	161,640	10,656	2,032
Athens	5,102	316,707	7,724	523
Auglaize	2,192	17,003	25	134
Belmont	6,517	115,072	1,283	1,904
Brown	4,629	166,933	312	2,179
Butler	3,961	72,392	75	1,630
Carroll	5,437	99,084	27,303	365
Champaign	2,938	11,295	35	486
Clarke	3,078½	17,709	36½	625
Clermont	9,667	204,377	970	6,632
Clinton	2,538	64,064	30	1,165
Columbiana	8,347	167,578	26,674	1,618
Coshocton	6,170	67,898	16,748	492
Crawford	4,740	16,775	1,023	636
Cuyahoga	5,294½	31,335	1,471	471
Darke	5,548	25,070	45	924
Defiance	2,904½	6,933	206	290
Delaware	4,962	11,102	1	148
Erie	4,053	115,832	11,693	642
Fairfield	5,634	91,404	113	305
Fayette	2,020	42,179	43	257
Franklin	4,185	25,091	120	342
Fulton	5,134	33,920	577	649
Gallia	5,266	144,955	46,657	516
Geauga	4,314	33,693	3,292	692
Greene	3,431	56,606	36	939
Guernsey	5,615	98,467	14,658	657
Hamilton	8,352	172,627	2,848	9,539
Hancock	5,504	118,979½	349	203
Hardin	3,091½	4,549	26½	46
Harrison	4,083	29,208	13,522	871
Henry	3,661	16,668	206	140
Highland	5,418	132,518	333	1,401
Hocking	4,285	64,065	103	51
Holmes	5,029½	26,715	6,474	542
Huron	6,576	51,520	5,687	709
Jackson	3,584	119,489	17,591	162
Jefferson	4,364	180,993	5,162	1,052
Knox	5,441	18,616	1,922	405
Lake	3,067	44,654	4,330	263
Lawrence	5,213	141,827	26,701	1,160
Licking	6,487	121,621	3,035	1,151
Logan	2,318	9,960	28	425
Lorain	6,020	102,041	4,470	339

APPLES, PEACHES, AND PEARS PRODUCED IN 1877—Continued.

Counties.	Orchards.	Apples.	Peaches.	Pears.
	Number of acres.	Number of bushels.	Number of bushels.	Number of bushels
Lucas	3,475	32,109	1,940	433
Madison	2,248	8,722	43	37
Mahoning	4,756	62,524	12,862	3,440
Marion	3,061	10,012	121½	174½
Medina	5,409	22,606	4,107	812
Meigs	6,385	234,450	24,902	921
Mercer	2,739	16,424	14	184
Miami	4,045	23,246	222	488
Monroe	5,895	141,435	1,104	249
Montgomery	4,182	25,023	3,295	1,603
Morgan	5,650	79,838	2,299	696
Morrow	5,226	38,149	59	496
Muskingum	7,456	67,735	17,265	1,775
Noble	4,371	101,620	2,636	392
Ottawa	1,699	21,229	5,333	439
Paulding	1,464	2,877	-----	18
Perry	3,942	44,618	736	735
Pickaway	2,896	60,346	138	254
Pike	3,286	140,796	4,046	292
Portage	6,571	58,474	16,097	974
Preble	3,904	20,661	12	1,036
Putnam	2,922	11,747	33	57
Richland	6,188	33,252	1,107	978
Ross	5,241	155,900	378	829
Sandusky	4,791	44,323	6,621	292
Scioto	2,913½	101,130	5,168½	485½
Seneca	6,447	32,747	2,624	586
Shelby	3,158	21,092	10	132
Stark	6,421	184,189	14,256	2,807
Summit	4,801	49,136	5,802	1,067
Trumbull	5,978	58,844	6,447	722
Tuscarawas	7,036	103,209	39,436	960
Union	3,350	6,667	5	118
Van Wert	2,897	14,032	-----	72
Vinton	2,837	88,022	1,688	112
Warren	5,740	11,105	16	3,107
Washington	11,207	225,725	10,512	471
Wayne	6,961	53,155	16,832	1,709
Williams	4,833	57,700	813	433
Wood	4,994	11,847	620	221
Wyandot	3,422	6,103	535	258
Totals	418,288½	6,248,677½	483,065½	80,254½

GRAPES AND WINE PRODUCED IN OHIO IN 1877.

Counties.	Grapes and Wine.			
	Acres planted in the year 1877.	Whole number of acres in vineyards in 1877.	Pounds of grapes gathered in the year 1877.	Gallons of wine pressed in 1877.
Adams	2	14	9,900	18
Allen		17	10,572	11
Ashland	12½	99½	269,125	31
Ashtabula	5	35½	210,000	40
Athens	3	9	9,482	5
Auglaize				
Belmont	12½	109½	62,380	5,06
Brown	15	217½	36,700	12,39
Butler	17½	34½	3,950	61
Carroll	1	7½	8,135	44
Champaign	1		580	3
Clarke	1-16	5	1,135	4
Clermont	53	456½	286,950	8,89
Clinton		4	40	
Columbiana	9	184½	91,709	765
Coshocton	3	25	27,700	278
Crawford	9½	25	26,500	608
Cuyahoga	94	630½	1,092,731	7,972
Darke		2	412	25
Defiance	8½	1½	1,725	8
Delaware	1	4	3,185	
Erie	37½	1,374	2,057,648	233,676
Fairfield	12	280	54,300	400
Fayette		5	420	
Franklin	8	30	875	
Fulton		2½	250	69
Gallia	10½	35½	20,950	634
Geauga	1	14	41,200	244
Greene			70	
Guernsey		36	38,830	154
Hamilton	430	807	397,237	6,982
Hancock	2½	5½	19,150	66½
Hardin	½	1	2,710	
Harrison	6½	7½	17,100	72
Henry		½	150	
Highland	2	5	910	
Hocking	10½	47	2,229	
Holmes	5	45½	19,320	707
Huron	8	30	35,420	23
Jackson		6½	385	
Jefferson	19	36	4,500	460
Knox	11	19	2,240	2
Lake	23	68	11,180	10
Lawrence		1	3,095	15
Licking		8½	15,650	378
Logan	1½	2	3,230	1,656
Lorain	56	465	187,610	710
Lucas	19½	117½	1,240,930	2,854
Madison	4	5		
Mahoning	10	60½	161,825	1,827
Marion	6½	8½	3,235	64
Medina	4	33	13,310	108

GRAPES AND WINE—Continued.

Counties.	Grapes and wine.			
	Acres planted in the year 1877.	Whole number of acres in vineyard in 1877.	Pounds of grapes gathered in the year 1877.	Gallons of wine pressed in 1877.
Maize	3	27	34,500	453
Mercer		1		200
Miami		8	225	
Monroe	3½	40½	20,500	1,010
Montgomery		30½	106	
Morgan		30½	19,225	160
Morrow	4½	5½	1,800	145
Muskingum	4	52	43,125	1,027
Noble	3	8	4,250	250
Ottawa	88	1,862	3,004,914	1,034,475
Paulding*		½	2,137	9
Perry	3	128	187,700	419
Pickaway	4	10	1,035	2
Pike	2	16	630	70
Portage	23	52	238,390	471
Preble	1	11		
Putnam	1½	15	3,634	15
Richland	5	167	200,061	39
Ross	5	172	13,233	1,013
Sandusky	6½	36½	37,590	1,165
Scioto	1½	10½	4,465	455
Seneca		8	9,250	711
Shelby		½	100	
Stark	42½	60½	117,543	706
Summit	10	31	66,790	384
Trumbull	11	23	144,265	275
Tuscarawas	6½	27½	5,900	301
Union	4½	24½	7,357	6
Van Wert	½	2½	1,900	24
Vinton		36	60	
Warren	6	8	120	1
Washington	10	77	59,720	4,478
Wayne	1½	33½	70,755	909
Williams	5½	10½	29,135	21
Wood	3½	13½	202,915	296
Wyandot	80½	101	25,635	85
Totals	1,274½	2,696½	11,119,401	482,419½

* Paulding county reported half acre in vineyard in 1874. No report of acreage since that time.

THE FRUIT CROPS OF OHIO.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY M. B. BATEHAM,
Secretary of the State Horticultural Society.

It appears from the assessors' returns, that the number of acres orchards in the State in 1877, was 418,289. In 1873 the number of acres was 385,829, thus showing an increase of 17,426 acres in the four years. Without claiming that the returns are strictly correct, and they show rather too much variability, it is certain that a good deal of orchard planting—apples, pears, peaches and plums—has been going on of late years, in various parts of the State. On the other hand, there have been many of the older class of apple orchards cut down, as no longer profitable, and many peach orchards have been destroyed by severe winters and other causes; so that the amount of orchard planting, done each year, is much greater than appears from the increase of the aggregate acreage. In the county of Warren, for instance, where the largest peach orchard formerly existed, the returns for 1872 give the number of acres of orchards as 7,022, and nearly the same number the year previous, but in 1873 the number was reduced to 5,782, and the latest returns are about the same. This is chiefly owing to the destruction of peach orchards by the severe winter of 1872-73, and the successive failures of that fruit, preventing much replanting. There has also been a slight decrease in the acreage of orchards in several of the adjacent counties, as Greene and Montgomery, partly from the same cause, and partly owing to the unprofitableness of the apple orchards.

THE APPLE CROP.

The apple crop of 1877, as stated in last year's report, was a very light one in most parts of the State, though not so nearly a failure as the northern residents supposed, for it was found that in the extreme southern border a number of counties were favored with nearly half a

crop; viz.: Washington, Athens, Meigs, Scioto, and several others. The fruit from this district is mostly shipped by the river, to southern cities, and does not contribute largely to the supply of our own markets.

The aggregate crop of the State for 1877, is reported as 6,248,677 bushels, but it is believed the number is somewhat overstated in several of the northern counties. The crop of the previous year, (1876), was reported as 29,641,200 bushels, and as much of the fruit was never gathered or reported, the crop may be set down as 30,000,000 bushels; while that of the previous "odd year," 1875, was only 1,530,049. These figures show how generally the orchards of the State have fallen into the unfortunate habit of bearing full crops ever alternate year, with scant ones or failures between. This can be more distinctly seen by taking the returns for three years, of a group of counties in any district of the State.

The extent of this alternation would appear still greater, if it were not for the fact that young and thrifty orchards do not, for some years, follow the example of the older ones; and hence most of the fruit that we obtain in the odd years, comes from the younger class of orchards, and hence, also, the majority of the old orchards are of no pecuniary benefit to their owners.

The apple crop of 1878 was again, of course, an abundant one, and the same being true of most other States, the markets were all glutted, and the prices for the fruit so low as to hardly pay for gathering, shipping and marketing; so that, as in 1876, much of the crop was left ungathered in the orchards, and no profits resulted to the orchardists. The trees, too, are weakened by bearing an excessive crop, so that they require all the next season for recuperation, and hence little or no fruit is then to be expected excepting from the young orchards.

The question is often asked, whether anything can be done to prevent or lessen this alternating habit of apple orchards. Some time was spent in discussion on this topic at the late annual meeting of our State Horticultural Society, and the practical conclusion was that it can be measurably prevented by thinning off the fruit severely, when trees of only moderate size are setting a full crop, and at the same time giving such culture, with manuring if needed, as to keep the trees in a growing condition. Another suggestion is, that as a large portion of the orchards are old, and the trees too much stunted to admit of their being recuperated or made profitable, young orchards should be planted in their stead, and the old ones cut away. In planting new orchards, care should be taken to select good deep soil, and prepare it thoroughly, also to choose the best varieties of apples for the location and the purpose for which the fruit is designed. Much useful information on these points may be

found in the annual reports of the State Horticultural Society, which are published each year as an appendix of the State Agricultural Report.

THE PEACH CROP.

The peach crop has not been good throughout the State since 1874 when it amounted to 2,235,574 bushels. Most of the trees were injured by overbearing that season, and, as a consequence, many of them were killed by the following winter. The next year, 1875, the crop was a complete failure in most parts of the State, and the aggregate was only 36,583 bushels. The crop of 1876 was very little better—47,298 bushels and that of the past year, 1877—483,086 bushels. The sections where the fruit has done the best, the past few years, are on the hill lands bordering the Ohio river, of a few southern and eastern counties, and in the northern parts of the State. Along the lake shore, and in the vicinity of the islands, the crop was quite profitable the past season, and fair the year previous, so that many additional orchards are being planted.

PEAR CULTURE.

Pear culture has not become a success in Ohio, though much planting has been done, and persistent efforts put forth by intelligent horticulturists. Some of these men have attained a fair measure of success for a time, but sooner or later the trees have generally succumbed to the dreaded *blight*, a disease that has long vexed and puzzled the horticultural world. Many of the trees supposed to have died from blight have really been killed by the winters, along with overbearing or starvation, or from being planted on unsuitable soil. These matters are now better understood than formerly by those who take pains to investigate them, and there is reason for the belief that a larger measure of success will hereafter attend the cultivation of this very desirable fruit.

PLUMS.

Plums, especially *damsons*, are quite extensively grown in several of the southwestern counties of the State, including Ross. Much planting has also been done, of late, in that section and elsewhere, of the finer plum as well as damsons; so that if the orchards are at all successful this fruit will, in a few years, be of considerable commercial importance, and deserve to be included in the statistics of orchards. The main difficulty in plum growing is, not as usually supposed, the ravages of the *curculio*—for that can easily be prevented—but the liability of the tree to winter-killing, and this seems to be more a consequence of the premature shedding of the leaves in summer than the severity of the winter.

CHERRIES.

Cherries, of the sweet or heart class, are but little grown for the markets in this State, owing to the very perishable nature of the fruit, and its liability to rot on the trees when ripening, also the depredations of birds. But in the southwestern quarter, around Cincinnati especially, large orchards exist, of the Morello variety, called Early May, which are very productive and profitable, the fruit being shipped long distances and selling well. Small orchards of the kind are found in the north, and are also successful.

GRAPE GROWING.

Grape growing has been less successful than formerly, for two or three years past, in consequence of the increasing prevalence of the rot, besides some damage by the winters or the spring frosts. The cause of the disease of the fruit, called rot, is as much a mystery as that of the pear blight. It seems to be mainly the effect of atmospheric influences and hence not easy to prevent or control, though it can be partly avoided by judicious selection of soils and locations. Here again, I must refer those interested, to the discussions and essays in the Horticultural Reports. The vineyards in the region of the lake shore and on the islands, constituting the greater part of those of the entire State, have been fairly successful the present year (1878) as well as the year previous. There has been some decrease of the number of acres of vineyards in the State the past few years. It was reported as high as 11,220 acres in 1871 and nearly as many in 1870. In 1876 the number is reduced to 8,322, and in 1877, 8,695. Ottawa and Erie counties, embracing the islands, contain 3,236 acres, and the other lake shore counties 1,316 acres, making over one-half the acreage of the vineyards of the entire State, and yielding, in 1877, nearly two-thirds of the entire amount of fruit, which, for the State, was 11,119,401 pounds. From this there was made 488,420 gallons of wine besides the fruits sold in the markets. The figures for 1876 differ but slightly from those for 1877. The acreage of vineyards on the islands has been pretty well kept up for some years past, enough new planting being done annually to make up for any vineyards destroyed. In some of the interior counties, where the vineyards are small and the rot has prevailed for several years, the acreage has been materially diminished, and is likely to be farther reduced unless some method is discovered for avoiding the prevailing malady.

THE SMALL FRUIT CROPS.

There has been a marked increase of the amounts of strawberries and raspberries grown and marketed in this State the past three or four years.

The people of our towns and cities seem to be increasing their taste for summer fruits, and using them more freely as a part of their daily diet. No statistics are at hand showing the amount of annual product or sales of strawberries in the State, but some facts were stated, at the late meeting of the State Horticultural Society, respecting the amount of sales in several of the cities, which were quite surprising to persons who had not given much attention to the subject. The crop of these fruits was quite good in the present year, (1878), and the prices at which they were sold were lower than usual, which fact, doubtless, contributed largely to the increase of consumption. In the city of Cleveland it was estimated, by those in the trade, that during several weeks of the strawberry season the sales averaged *thousand bushels per day*, besides nearly as many shipped to Detroit and other places; and at Cincinnati, Columbus, Dayton, and several other places the sales were nearly in the same ratio for the population. Raspberries, coming immediately after strawberries, are also increasing in demand and use, the sales are very heavy, especially of the black-cap varieties—as they bear distant transportation better than the reds, and can be more cheaply grown; but some growers located near city markets find no profit in the reds, as they bring higher prices.

CURRENTS.

Currents are in demand next after raspberries, or along with them. The domestic supply of this fruit has been materially lessened by ravages of the currant worm, and those who take the pains to fight these insects, and also to give good culture to the bushes, find the crop profitable as the other small fruits, and it serves to prolong the season of selling.

ARBORICULTURE.

FOREST CULTURE IN OHIO.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY M. C. READ, HUDSON, OHIO.

Observers are not fully agreed as to the extent of the climatic influences resulting from the destruction of the Ohio forests. Whether the amount of the annual rainfall is diminished or not, it is probable that the number of rainy days is diminished, and that the rainfall is not as equally distributed as formerly. It is certain that very many springs and streams that were formerly perennial now fail entirely in protracted drouths. Old mill sites are abundant on the banks of streams which are now very insignificant, and would furnish no valuable water power. On farms that were once regarded as well watered, wells are sunk to obtain water for the domestic animals, or mere excavations made to catch and retain the surface water, in stagnant pools, thus securing an uncertain and a very unwholesome supply. Some of the causes which have produced these results are easily recognized. The forests retained the rainfall, checked the surface flow of the water, and the network of roots carried it downwards, so that the earth became saturated to a great depth. After the forests were removed the surface flow was uninterrupted, the wash of material into the lakes and swamps was greatly increased, their dimensions rapidly diminished, and partly by these causes and partly by artificial surface drainage, many of these swamps and lakelets have been wholly obliterated. The surface along the whole of the table land which separates the waters of the lake and the Ohio River was originally diversified by a multitude of lakes, swamps and hollows, not the result of surface erosion, but of the agencies which deposited the drift. These constituted so many reservoirs to retain the

surface water, carry it deeply into the earth, and feed the springs each side of the divide, and thus made the streams perennial. Surface channels of drainage now take the place of the subterranean channels which fed the springs. As the roots of the trees have disappeared from the cleared fields and the cavities which for a time marked their places have become obliterated, a large percentage of the rainfall flows rapidly off into the streams, swelling them into larger dimensions than they ever formerly attained, but at the expense of the springs, which fed them in the intervals of drouth. Wherever irrigation is carried out on a large scale, as it was in some parts of India before the English occupation, must be done by constructing just such reservoirs to hold in reserve superfluous rainfall.

The increased rapidity of surface evaporation is one important element in the climatic influences resulting from the destruction of the forests. Every farmer understands the marked effect of a slight mulching of the surface in retaining the moisture in the soil, and careful experiments reported by Franklin B. Hough, of Lowville, N. Y., in his report to the United States Commissioner of Agriculture, "upon Forrestry," show that the total surface evaporation from April 1st to September 30th from a square foot of saturated earth, was—

In the open fields	2,174.60 cubic inches.
In woods, without litter.....	847.03 “
In woods, with litter.....	333.04 “

The first would be equal to a rainfall of 15.10 inches, and the last that of 2.31 inches. The writer of the report reaches the following general conclusions from the experiments and observations collected by him:

- “1. The forests alone, without litter, diminish the evaporation of water in the soil as compared with the open fields (in the mean of two years observed), 62 per cent.
- “2. The litter covering in the forest diminishes the evaporation still further 22 per cent.
- “3. Forests and litter together reduce evaporation 84 per cent.
- “4. In litter covered forests the evaporation is 60 per cent. less than in uncovered forest soil.” (Page 246.)

It is evident from all these facts that in the summer months very little of the rain except that which falls upon a wood-covered surface can reach the sources of the springs, and that they must gradually fail as the forests are destroyed.

It is probable that the full climatic effects of the removal of our forests are not yet seen, and that the evils will steadily increase if their destruction

tion is continued. It is certain that the State is already dependent upon extra-territorial regions for its supply of lumber, and that very many farmers cannot obtain from their own land the timber needed for fences and other farming purposes.

The map showing the distribution of wood lands, according to the statistics of the last census, assigns to the greater part of Ohio from one hundred and twenty to two hundred and forty acres of wood land to the square mile, or from three to six sixteenths of the surface. The statistics of forestry in the United States Agricultural Report for 1875, gives the forests of Ohio as 31 7-100 per cent. of the surface, the extremes of the counties being Erie 13.3, and Paulding 60 per cent. These statistics are calculated to give a very erroneous idea of the extent of our timber reserves. From nearly all this forest the most valuable timber has been gathered, much of ordinary quality removed, and agencies are in operation which, if continued, will in a brief time destroy what remains. The partial removal of the timber has left openings, spontaneously occupied by our native grasses, which the farmers, through a false economy, have sought to save by making the wood lands a part of their pastures. The cattle, hogs, and sheep, roaming through these detached forests, are effectually preventing the growth of any new trees, and it is just here that the first efforts at forest culture in Ohio should be made—an effort to save the forests that remain. Under present management, when the crop of trees now standing is gathered or perishes by age, the forests will disappear. All seedlings, as fast as they spring up, are destroyed by domestic animals, the young trees are broken down or injured, the undergrowth of small shrubs is destroyed, which formerly protected the surface, held the fallen leaves in position, and retarded the surface flow of the water; and unless the practice of making the forests ranges for domestic animals is abandoned, their early destruction is inevitable.

In the forests of France and Germany, young trees are carefully planted to take the place of those removed; but if our forests can be thoroughly protected from the intrusion of domestic animals, it is believed that seedlings will spring up in sufficient abundance to maintain the forest, and that the annual growth would equal the consumption for ordinary farm uses. To accomplish the best results, the worthless varieties of the larger trees should be destroyed, and the growth of the shrubs which constitute the "underbrush" encouraged. It is a mistake to cut this away because it will not make valuable timber. It protects the surface from the rays of the sun and the action of the wind, checks evaporation and retards the surface flow of the water, tending to maintain that moist condition of the atmosphere and of the soil which is essential to forest growth. The

expense of preserving what we have is light in comparison with the of replacing it, and this can be done only in the manner indicated above. If a farm is overstocked, and the pastures begin to fail, it is better bandry to turn the cattle into the standing corn, than into the forest reserves. The corn-field can be restored in a single season, but when forest is destroyed a hundred years are required for its full restoration and a proper percentage of forests is essential to the best returns from the arable and pasture lands. The lowest amount required to secure best agricultural results from the rest is estimated by Marsh at two and a half per cent.

The second source of our future supply of timber should be the rock-covered hills which are fitted only for the growth of forests. Many of these, especially in the eastern part of the State, are in sand-stone formations, especially adapted to the growth of the chestnut, where it springs up spontaneously and would soon occupy the whole surface, if fostered and protected. The renewal of the forests on these hills can be greatly hastened by the planting of young trees in all open places, and by encouraging a dense growth of brambles, or such other shrubs as will spring up spontaneously, to protect the slopes from washing and secure a moist surface. To secure the introduction of new trees, the seeds may be planted as soon as ripe, in the places where they are to grow, or they may be planted in nurseries and cultivated for one, two, or three years, and then transferred to the hills. As the nuts are liable to be destroyed by ground squirrels and other rodents, and as most of our nut bearing trees have long tap roots which are sure to be injured in transplanting, the best way will be to pack the nuts as soon as gathered in sand or garden soil where they will be exposed to the frosts of winter, and in the spring plant them in the places where the trees are to grow, or else plant them out after one year's growth in the nursery. On these rock-covered hills the chestnut finds a congenial soil, makes a rapid growth, and, being renewed from the stump when cut, can be easily maintained in a permanent forest. When thus grown it is one of our most valuable trees for fence posts and railroad ties, and in a long series of years can be made to yield a crop from these unproductive, rocky hills, of equal value to that obtained from ordinary arable land, while hills thus covered will be sure to furnish perennial springs at their bases, which would disappear if the hills were cleared.

Our swamps also constitute a natural forest reserve. How far they should be reclaimed and drained is a difficult problem. They are natural reservoirs to retain the surplus precipitation and to maintain the flow of water in the streams during drought. They are also the source

of miasmatic diseases, and evaporation from their surfaces reduces the temperature and brings early frosts in their neighborhood. There are cogent reasons on the one hand calling for their preservation, and on the other, for their destruction. The processes of reclamation increase largely the miasmatic exhalations, which will cease only after thorough cultivation and drainage. While they remain, health and economy alike require that they should be covered with as heavy a forest growth as possible. To secure the best results, as in other forest reserves, the intrusion of cattle should be prevented, and the growth of the best varieties of timber encouraged, by gradually cutting out that which is worthless. If the swamps are reclaimed the function they perform in the drainage system, as well as that for a time performed by the root cavities in the cleared land, would in a great measure, be provided for by systematic under-drainage. Unless this substitute is provided, it is believed that the general reclamation of the swamps would be an injury. But deep under-draining would open up the soil to a great depth, cause the surface water to penetrate the earth, and flow off into the streams much more gradually, thus feeding the sources of the springs.

The systematic planting of new forests requires a careful study of the habits of the different forest trees, the conditions of forest growth, and a wise and provident regard for the wants of the distant future, which few are inclined to exhibit. When under-draining will double the average annual crops, farmers are much more inclined to employ their surplus income in the purchase of new lands than in the under-draining of what they have, because it increases more their visible wealth, and makes a better showing on the tax duplicate. But the successful pioneer in forest culture, as well as in under-draining, when each is needed, is a public benefactor, and receives a double reward. If a few will here and there make a successful beginning, the whole work will be assured.

Some of the most obvious conditions of forest growth are a congenial soil and a humid condition, both of the soil and of the air, during the season of most rapid growth. In the native forests natural selection secures the occupancy of the territory to the species to which the soil and the environment are most congenial, while continued occupancy of the soil by one species or family often renders it less and less fitted for their use, and better fitted for others that are waiting to take possession; so that a marked tendency to rotation, a crowding out of the old occupants and the introduction of new ones, is observed in all forests. In mixed forests these changes are gradual; in forests composed of one species or family, the change is often abrupt and complete. In artificial forest culture these tendencies should be carefully observed and their indications

followed. The species that are tending to crowd out the old occupants will be likely to succeed the best when artificially planted.

Natural agencies secure a humid condition of the soil and the air forests, by the dense undergrowth of shrubs and mosses, and by the coating of leaves which are carried into the hollows and ravines, obstructing the small water-courses, checking the surface flow, and surface evaporation; while the roots of the trees forming a net-work on the surface, deeply penetrating the sub-soil, facilitate the downward descent of water. Each tree struggling upward for the light takes a straight form, the growth being mainly concentrated in the trunk or body of tree.

Failure in the artificial growth of forests is most likely to result from a want of this natural covering of the surface, which counteracts the effects of protracted drouths. It has often occurred in north-east Ohio that dense second growth groves of sugar-maple, of the age twenty or twenty-five years, have been almost entirely destroyed by a single summer's drouth. In such seasons many trees in isolated groves and in the open pastured forests, die for want of water. But it is believed that this never happens in the unbroken primitive forests of the State. To provide as far as possible a substitute for this natural protection of underbrush, mosses, and leaves, wherever practicable, the forest yet remaining should be made a nucleus around which the new forests be planted, thus securing a partial protection. But thick planting and mulching of the surface with coarse manure, straw, or some substitute for these, until the ground is entirely shaded by the new growth, and until the falling leaves will suffice to cover the surface, will be found indispensable. It is true that, without these precautions, the young forest trees may maintain a vigorous growth for years, but they will almost surely perish under the influence of a protracted drouth, which can be foreseen, and can be effectually provided for only in this manner. No attempt to cultivate another crop between the rows of trees should be made. The whole strength of the soil and the care of the owner should be given to the growing forests. The thinning out should be gradual. This may be left to natural selection; but experiments show that the value of the forest is greatly increased by artificial pruning and thinning. As soon as the young forest has fairly monopolized the surface, those trimmings that are not of a useful size may be profitably left upon the ground to retain the fallen leaves in place and encourage the growth of mosses and underbrush. When the forest comes so dense that sphagnum mosses can grow, the forest may be considered as established, and able to hold its own position.

Forests should be planted for all uses to which our native trees, or those readily acclimated, are adapted; but the surest returns will be obtained by consulting the most obvious wants, and those which can be provided for in the shortest time.

The largest permanent demand for timber of moderate size will be for railroad ties, and for fence posts and fencing. Fifteen millions of dollars are required each year for ties for the railroads already constructed in the United States and territories, and the cost of fencing material for the whole country must be vastly in excess of this.

The Erie Railway Company classifies timber for ties as follows:

First class—Second growth chestnut, white oak, burr oak, rock oak, yellow oak, black locust, and mulberry.

Second class—Butternut, cherry, red cedar, white cedar, yellow cedar, southern cyprus, black elm, rock maple, black oak, pitch pine, and black walnut.

Third class—Black birch, first growth, chestnut, northern cyprus, red elm, white hemlock, soft maple, red oak, tamarack, and yellow pine.

If the catalpa was added in first class, the list and classification might be considered as substantially correct, and where trees are planted with the main design of growing railroad ties and fencing posts, trees may well be selected substantially in the order above named, according as they are adapted to the locality, and the grounds to be planted.

An equally early return may be obtained from trees planted to obtain tough timber for wagon making, axe helves, and other wooden handles, and all uses for which small pieces of strong timber are required. For these uses hickory and white ash are best adapted; and, while generally it will probably be advisable to plant a mixed forest, a plantation exclusively of hickory can hardly fail to yield a profitable return. By selecting the most edible nuts of the shag bark variety, planting thickly, with rows not more than four feet apart, and with the trees not more than two feet apart in the row, in a very few years the harvest may begin by cutting hoop-poles, which will be removed from the stump, and produce a continuous yield, the larger thinnings making the very best of fire-wood, and by the time the plantation commences to yield timber for the purposes indicated above, the crop of nuts will be no insignificant part of the returns. The hickory should be planted where it is to grow, or if planted in nurseries should be transferred to the field after one year's growth. If deprived of the tap root in removal, the hickory requires many years to establish itself, and a large percentage will fail to grow. Nearly all nut-bearing trees exhibit more or less of the same characteristics, and, as they are very liable to be thrown out of the ground by the frosts of

the first winter, not being firmly anchored by lateral roots, the best results will doubtless be obtained by growing all these trees in the nurser for one year only, and then transferring them to the permanent plantation. The tap root is essential to firmly anchor the tree in its place, and to bring up moisture from the sub-soil, thus enabling the tree to endure protracted drouth.

But there are other uses for artificially-grown timber, in which the profits may be made much larger—the growing of ornamental woods for cabinet work and the inside finish of houses; and for this purpose there may be selected the black walnut, the butternut, the white ash, the chestnut, the soft maple, the catalpa for the southern half of the State and probably some others. The arboriculturist who will be the first to gather a harvest of well-grown trees for these uses, will find that he has received a return for his labor, in money, to an amount which could not be equalled by any ordinary farm crops. The demand for such lumber to cut into veneers, would for years exhaust the supply, and prices would remain high until the market was fully stocked. In planting forests for all purposes, our whitewood (*lireodendron*), cucumber (*magnolia*), and other trees for ordinary sawing timber, should find a place with the white pine, which, it should be remembered, will grow on light, sandy soils too poor in humus for the growth of deciduous trees.

The sugar maple is not enumerated in the list of trees given above but the maple sugar and syrup of the future will depend upon “sugar orchards” artificially planted, or upon the careful protection of the seedlings in the present forest reserves. The old trees are fast dying out, and in rare instances only are the young trees so cared for as to render them secure. There can be little doubt that ten or more acres of these trees, well established on a farm of ordinary size, even of a few years’ growth, would add more to the saleable value of the farm than the cost of planting and caring for the plantation. The thorough protection of the remaining forests would, in most localities where this tree is now found, secure an abundance of young trees from the seedlings spontaneously appearing.

There are important considerations in favor of mixed forests in all new plantings. Different trees exhaust different ingredients from the soil, and it cannot, with certainty, be foreseen what varieties are best adapted to any particular locality. It is certain that a given area will support a more dense forest of different species of trees than of one only. There will also be much less danger from noxious insects. Almost every tree has its peculiar insect enemy, which will increase in proportion to the abundance and accessibility of its appropriate food, and a large plantation of one species of tree would naturally result in a large increase

in the number of the insects feeding upon it; and were it not for the presence of predaceous insects, subject to the same law of increase, systematic plantations would in many cases yield no beneficial results. The planting of the ordinary white locust as an ornamental tree, illustrates these facts. For some years it appeared to have no insect enemies; but in time the locust borer (*Olytus robinia*) appeared, and soon in so great numbers that its larvæ nearly destroyed a large per centage of the trees. They increased because their appropriate food was artificially increased. The predaceous insects which feed upon them also increased as their appropriate food increased, and soon reduced the number of the borers, so that the injury caused by them has again become insignificant. It is to be expected that new plantations of any forest tree will, in places, suffer from the increase of insect enemies; but natural causes will soon secure a nearly adjusted balance, and the evil will disappear.

The thick planting of trees and encouraging the growth of the "underbrush" in the forest reserves, which is now largely destroyed, will have another beneficial result, in increasing the number of our small insect-eating song birds. Within a comparatively few years their number has been greatly diminished, and largely because of the destruction of the thickets and shrubs, which are their favorite nesting places. Let these be permitted to grow in the forests, and they will again be vocal with the songs of the birds. They are also one of the natural checks to the undue increase of destructive insects, and we cannot, without great risk, dispense with their aid.

Very little has yet been done in Ohio toward renewing or increasing our forests. E. E. Barney, of Dayton, Ohio, has made some interesting experiments, and collected valuable facts in regard to the catalpa and its cultivation. Messrs. Storrs & Harrison, of Painesville, have made a specialty of the raising of chestnut seedlings, and can furnish them in large quantities, and at very cheap rates; and, generally, there is a growing interest in all matters pertaining to forest culture throughout the State. It is often a matter of boasting that there is no waste land in the State—that it is all susceptible of profitable cultivation. But if one-fourth of the surface was occupied by hills and mountains, so rocky and precipitous as to repel all attempts at their cultivation, and compel their reservation for forests alone, our future would be much more secure. The extensive "barrens" in many of the Southern States, supporting a meagre forest growth, with a soil so sterile that it will not pay for clearing and fencing, serve important climatic purposes, and tend to secure the perpetual value of the arable lands. Apparently better favored, we will suffer irremediable loss, if we are unwilling to devote a fair percentage of our "good lands" to the growth of forests.

METEOROLOGY.

RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT URBANA, LAT. 40° 6' NORTH, LONG. 84° 43' WEST.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY MILO G. WILLIAMS.

EXPLANATIONS.

The observations were made in accordance with the methods of the Smithsonian Institution. The hours of observation were 7 A. M., 2 P. M., and 9 P. M.

Thermometer.—An observation is taken at sunrise, which is usually the minimum of the day. All other means are made from the daily observations. The means of the seasons are given in separate tables.

N. B.—All entries before 1852 are taken from the tables kept by Judge Reynolds.

Barometer.—The true height of the mercury is obtained by making the proper reductions; the record is made in inches and fractions of an inch.

Snow and Rain.—The number of days of rain and snow is given, together with the depth, in inches and fractions of an inch. The column of rain-fall includes the snow melted. The number of days on which there was *thunder* is given.

Clouds.—The degree of cloudiness is indicated by numbers, the scale being from 10 to 0—10 indicates cloudiness throughout the day; 5, one-half, and 0 entire clearness, and intermediate numbers in the same proportion. In the table for 1878, the number of observations each month is given for the eight points of the compass from which the clouds move.

Wind.—The force of the wind is on the same scale—0 being calm, 5 high wind, and 10 the most violent hurricanes. The course of the wind is given to eight points of the compass.

SUMMARY OF METEOROLOGICAL OBSERVATIONS TAKEN AT URBANA, FOR THE YEAR 1878.

1878.	Minimum temperature.	Day.	Maximum temperature.	Day.	Coldest day.	Mean of the coldest day.	Warmest day.	Mean of the warmest day.	Mean temperature of the month.	Minimum of barometer.	Maximum of barometer.	Mean barometer of the month.	Number of days of snow.	Quantity of snow.	Number of days of rain.	Quantity of the rain-fall.	Number of days wholly cloudy.	Number of days fair.	Number of days clear.	Thunder.
January.....	10	7th	55	18th	7th	50	20th	45.00	50.87	34.43	59.25	50.850	7	19.77	7	4.00	6	0	0	0
February.....	9	4th	60	21st	4th	19.00	21st	53.00	53.64	36.16	59.31	50.770	4	9.35	4	9.53	7	0	4	1
March.....	16	23th	70	29th	25th	37.50	8th	63.50	45.30	38.77	59.09	50.792	1	.00	13	3.65	9	11	0	0
April.....	20	7th	80	22d	8th	45.50	20th	67.75	57.77	34.99	58.95	50.642	0	.00	7	3.30	0	13	1	4
May.....	26	13th	85	2d	13th	46.50	9d	72.75	60.66	28.55	59.00	50.783	0	.00	11	3.96	8	19	0	0
June.....	47	4th	81	20th	2nd	53.75	29th	69.50	66.78	28.32	59.05	50.764	0	.00	8	3.79	5	14	5	4
July.....	52	23d	90	17th	2nd	66.75	17th	82.50	74.17	26.37	59.03	50.790	0	.00	7	6.16	0	21	0	7
August.....	53	8th	88	4th	30th	65.75	9th	73.75	73.54	30.01	58.99	50.750	0	.00	10	5.37	0	17	4	8
September.....	41	2nd and 30th	74	7th and 16th	27th	52.25	20th	77.00	64.40	28.52	59.35	50.905	0	.00	8	3.23	1	14	7	1
October.....	23	30th	60	1st	8th	31.00	1st	71.00	51.99	28.84	59.15	50.870	1	.50	9	9.95	1	12	8	1
November.....	20	1st and 30th	63	6th	30th	30.50	6th	57.50	41.99	28.19	59.03	50.851	1	.35	8	2.96	3	14	4	0
December.....	18	9th	45	1st	24th	1.50	1st	41.25	32.79	28.19	59.23	50.845	10	16.33	4	3.66	7	8	0	0
Means and extremes.....									52.00	26.28	59.59	50.804	24	20.30	96	41.04	47	154	49	31

MEAN DEGREE OF FORCE OF THE WIND, AND THE COURSE FROM WHICH THEY COME,
FOR 1878.

1878.	Force.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Calm.
January	1.69	4	1	11	4	14	15	7	6	31
February	1.54	3	12	0	2	8	8	6	7	38
March	2.15	3	3	4	7	16	15	11	8	26
April	1.96	6	2	4	9	9	20	8	6	26
May	1.97	1	4	1	10	7	17	14	3	36
June	1.43	3	4	3	1	13	17	6	8	34
July	1.11	6	2	2	2	3	14	11	3	50
August	1.11	5	1	3	2	2	11	11	4	54
September	1.01	6	3	1	3	10	10	5	4	48
October	1.59	2	3	2	1	3	18	14	8	42
November	1.81	2	1	3	1	9	6	16	6	46
December	1.38	2	3	1	6	4	10	21	4	42
Means and sum.	1.51	43	39	35	49	98	161	130	67	473

MEAN DEGREE OF CLOUDS, AND THE COURSE FROM WHICH THEY COME, FOR 1878.
URBANA, OHIO.

1878.	Degree.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Doubtful.	Clear.
January	7.02	2	0	2	3	5	7	18	4	31	21
February	6.42	3	2	1	1	2	7	14	4	22	28
March	6.00	3	0	1	0	4	7	25	12	17	24
April	7.02	5	3	2	1	10	12	23	5	14	15
May	6.04	4	2	0	0	2	13	28	3	20	21
June	4.93	1	4	1	1	3	7	25	6	8	34
July	4.37	7	3	0	2	6	8	23	1	12	31
August	4.89	4	7	1	1	2	6	29	14	3	26
September	3.85	10	1	1	0	6	11	9	2	11	39
October	4.02	4	0	1	0	3	10	22	5	9	39
November	5.37	4	0	2	0	5	1	27	7	14	30
December	7.83	3	0	1	0	4	2	26	4	39	15
Means and sum	5.65	50	22	13	9	52	91	263	67	200	323

THE RECORDS OF THE THERMOMETER, BAROMETER, SNOW, RAIN, CLOUDS, AND WIND, FOR 47 YEARS, AT URSANA, OHIO.

Year.	Thermometer.			Barometer.		Snow.		Rain.		Clouds.					Wind.										
	Minimum of Thermometer.	Maximum of Thermometer.	Annual mean of Thermometer.	Minimum of Barometer.	Maximum of Barometer.	Annual mean of Barometer.	No. of days snow.	Quantity of snow.	No. of days rain.	Quantity of water.	No. of days wholly cloudy.	No. of days fair.	No. of days storm.	No. of days thunder.	Degree of cloudiness.	Degree of force of wind.	No. days prevailing wind from North.	North-east.	East.	South-east.	South.	South-west.	West.	North-west.	Calm.
1847	30	83	56.7	29.10	30.10	29.60	54	86.30	66	70.74	47	73	13	16	53	1.51	75	10	16	35	50	18	30	40	13
1848	31	82	56.5	29.00	30.00	29.50	55	86.50	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1849	32	81	56.3	28.90	29.90	29.40	56	86.70	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1850	33	80	56.1	28.80	29.80	29.30	57	86.90	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1851	34	79	55.9	28.70	29.70	29.20	58	87.10	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1852	35	78	55.7	28.60	29.60	29.10	59	87.30	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1853	36	77	55.5	28.50	29.50	29.00	60	87.50	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1854	37	76	55.3	28.40	29.40	28.90	61	87.70	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1855	38	75	55.1	28.30	29.30	28.80	62	87.90	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1856	39	74	54.9	28.20	29.20	28.70	63	88.10	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1857	40	73	54.7	28.10	29.10	28.60	64	88.30	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1858	41	72	54.5	28.00	29.00	28.50	65	88.50	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1859	42	71	54.3	27.90	28.90	28.40	66	88.70	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1860	43	70	54.1	27.80	28.80	28.30	67	88.90	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1861	44	69	53.9	27.70	28.70	28.20	68	89.10	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1862	45	68	53.7	27.60	28.60	28.10	69	89.30	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1863	46	67	53.5	27.50	28.50	28.00	70	89.50	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1864	47	66	53.3	27.40	28.40	27.90	71	89.70	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1865	48	65	53.1	27.30	28.30	27.80	72	89.90	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1866	49	64	52.9	27.20	28.20	27.70	73	90.10	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1867	50	63	52.7	27.10	28.10	27.60	74	90.30	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1868	51	62	52.5	27.00	28.00	27.50	75	90.50	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1869	52	61	52.3	26.90	27.90	27.40	76	90.70	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1870	53	60	52.1	26.80	27.80	27.30	77	90.90	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1871	54	59	51.9	26.70	27.70	27.20	78	91.10	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1872	55	58	51.7	26.60	27.60	27.10	79	91.30	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1873	56	57	51.5	26.50	27.50	27.00	80	91.50	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1874	57	56	51.3	26.40	27.40	26.90	81	91.70	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1875	58	55	51.1	26.30	27.30	26.80	82	91.90	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1876	59	54	50.9	26.20	27.20	26.70	83	92.10	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1877	60	53	50.7	26.10	27.10	26.60	84	92.30	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1878	61	52	50.5	26.00	27.00	26.50	85	92.50	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1879	62	51	50.3	25.90	26.90	26.40	86	92.70	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1880	63	50	50.1	25.80	26.80	26.30	87	92.90	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1881	64	49	49.9	25.70	26.70	26.20	88	93.10	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1882	65	48	49.7	25.60	26.60	26.10	89	93.30	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1883	66	47	49.5	25.50	26.50	26.00	90	93.50	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1884	67	46	49.3	25.40	26.40	25.90	91	93.70	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1885	68	45	49.1	25.30	26.30	25.80	92	93.90	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1886	69	44	48.9	25.20	26.20	25.70	93	94.10	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1887	70	43	48.7	25.10	26.10	25.60	94	94.30	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1888	71	42	48.5	25.00	26.00	25.50	95	94.50	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1889	72	41	48.3	24.90	25.90	25.40	96	94.70	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1890	73	40	48.1	24.80	25.80	25.30	97	94.90	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1891	74	39	47.9	24.70	25.70	25.20	98	95.10	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1892	75	38	47.7	24.60	25.60	25.10	99	95.30	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1893	76	37	47.5	24.50	25.50	25.00	100	95.50	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1894	77	36	47.3	24.40	25.40	24.90	101	95.70	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1895	78	35	47.1	24.30	25.30	24.80	102	95.90	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1896	79	34	46.9	24.20	25.20	24.70	103	96.10	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1897	80	33	46.7	24.10	25.10	24.60	104	96.30	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1898	81	32	46.5	24.00	25.00	24.50	105	96.50	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1899	82	31	46.3	23.90	24.90	24.40	106	96.70	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13
1900	83	30	46.1	23.80	24.80	24.30	107	96.90	164	70.47	36	72	12	17	52	1.51	75	10	16	35	50	18	30	40	13

MINIMUM, MAXIMUM, AND MEAN TEMPERATURE OF THE WINTER MONTHS—1
1878, INCLUSIVE; ALSO, THE MEAN OF THE WINTER MONTHS, AT URBANA

Years.	January.			February.			December.		
	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.
1832	-5	58	33.17	-6	53	.....	14	50	25.41
1833	6	59	33.77	10	55	30.50	21	48	35.34
1834	-6	49	19.73	24	64	38.89	18	49	32.80
1835	4	51	31.63	-17	46	20.06	10	53	29.66
1836	1	48	38.84	-4	53	23.47	3	52	28.16
1837	6	49	23.78	-6	54	33.69	9	65	31.75
1838	9	64	34.78	-16	36	19.42	-4	46	24.70
1839	7	65	31.72	1	52	31.95	19	48	31.91
1840	-5	46	22.52	10	52	41.10	5	52	29.91
1841	-11	50	28.58	1	53	30.28	12	62	32.84
1842	10	61	35.10	2	61	33.63	2	58	30.66
1843	4	66	35.71	-6	51	22.22	12	62	35.23
1844	-3	51	28.79	11	56	33.90	14	57	33.36
1845	14	57	33.97	9	63	36.36	-4	46	23.94
1846	-6	56	32.26	-2	51	38.36	13	62	35.13
1847	-6	58	24.29	6	56	31.12	-2	59	32.07
1848	-16	60	35.32	12	55	34.31	15	66	37.23
1849	2	55	28.00	-6	61	28.08	2	50	29.13
1850	5	55	33.81	-16	55	32.61	-9	56	31.39
1851	1	57	31.51	10	57	42.01	-12	58	27.42
1852	-20	51	19.94	10	54	32.38	18	56	36.74
1853	7	54	32.95	-5	52	32.60	6	52	31.40
1854	-8	59	29.46	10	61	35.62	4	55	30.85
1855	-6	61	29.55	-5	52	22.53	-5	50	29.77
1856	-23	42	14.39	-22	50	19.32	-4	50	21.93
1857	-19	37	14.37	-4	70	38.95	18	60	35.87
1858	18	60	36.45	-13	54	22.70	5	55	37.08
1859	-6	52	29.19	7	62	32.17	-10	62	32.00
1860	-11	57	29.11	0	66	30.61	5	43	26.23
1861	3	46	27.26	1	70	36.71	12	68	36.20
1862	9	58	29.03	-2	52	28.06	5	64	33.56
1863	1	56	32.70	5	60	32.99	3	55	32.92
1864	-16	64	25.11	-6	62	30.30	-4	57	27.71
1865	-5	42	18.55	2	50	30.08	1	64	31.30
1866	-2	61	25.81	-12	58	26.27	-9	51	26.48
1867	-15	46	17.89	-10	58	34.34	4	64	28.57
1868	-7	48	21.75	-4	49	25.09	-6	50	25.70
1869	16	58	33.38	8	66	32.88	15	49	31.54
1870	-4	54	29.90	-7	55	29.07	-12	53	26.93
1871	10	62	31.27	9	65	33.15	-17	60	26.25
1872	-8	43	24.13	-12	52	26.80	-18	43	20.20
1873	-26	56	22.90	-5	59	27.25	12	69	34.86
1874	-3	66	31.98	0	54	32.35	10	57	33.65
1875	-14	41	19.08	-16	64	19.04	0	69	33.78
1876	9	70	36.19	2	68	34.17	-12	48	19.73
1877	-20	56	23.94	18	60	35.33	14	67	41.86
1878	-10	63	29.57	-2	60	32.64	-12	45	23.79
Means			28.37			30.67			30.38

MINIMUM, MAXIMUM, AND MEAN TEMPERATURE OF THE THREE SPRING MONTHS; ALSO
THE MEAN OF THE SPRING MONTHS AT URBANA, OHIO, FOR FORTY-SEVEN YEARS.

Year.	March.			April.			May.			Mean of Spring.
	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	
1832.....	10	69	43.81	32	79	50.70	40	81	60.48	51.09
1833.....	3	67	39.69	32	80	56.04	50	81	66.54	54.09
1834.....	22	68	42.64	30	77	55.57	34	84	58.61	52.34
1835.....	-7	63	39.24	25	77	54.52	34	87	65.21	52.99
1836.....	-4	57	34.10	31	80	53.45	40	88	64.42	50.66
1837.....	16	66	39.72	24	83	45.48	36	85	59.33	48.18
1838.....	8	75	39.99	24	79	46.11	30	76	53.85	51.11
1839.....	-15	69	39.53	30	78	57.05	30	86	59.83	52.14
1840.....	16	74	45.77	27	70	55.37	42	82	62.12	54.43
1841.....	8	78	40.97	31	75	60.00	33	85	59.01	50.00
1842.....	26	76	48.98	35	80	56.30	38	75	58.72	54.63
1843.....	-2	48	31.47	28	75	49.06	36	82	59.56	43.36
1844.....	16	66	40.24	28	79	59.56	35	83	63.43	54.41
1845.....	20	75	42.72	18	80	56.50	32	83	60.23	53.15
1846.....	6	62	42.24	28	83	54.08	41	84	65.00	53.77
1847.....	10	61	36.86	25	76	51.50	37	79	60.51	49.63
1848.....	4	78	39.37	27	76	66.00	40	84	63.61	53.09
1849.....	25	65	42.62	22	81	48.60	40	80	60.56	50.66
1850.....	2	59	39.12	25	72	46.02	34	81	57.35	47.16
1851.....	20	69	45.06	30	71	48.98	28	86	63.68	52.57
1852.....	10	72	42.04	27	84	48.93	33	85	63.22	51.41
1853.....	15	67	38.68	30	76	50.56	38	87	60.30	49.84
1854.....	21	70	43.77	27	85	50.96	37	86	62.84	52.52
1855.....	-1	69	32.80	17	90	53.38	32	91	62.63	49.60
1856.....	-8	57	27.34	21	84	52.52	29	92	58.81	46.22
1857.....	-7	75	34.35	14	71	39.56	29	86	56.93	43.25
1858.....	-3	74	38.73	25	80	49.30	39	83	59.00	49.01
1859.....	12	70	45.60	26	79	48.00	37	88	66.10	53.23
1860.....	19	79	42.14	26	84	51.62	34	90	66.23	53.33
1861.....			37.60			50.56			61.70	49.96
1862.....	13	68	37.66	30	76	50.56	34	84	61.28	49.96
1863.....	18	70		20	76		40	86	64.57	50.59
1864.....	6	69	35.73	28	75	46.84	31	88	62.60	48.39
1865.....	8	72	43.44	27	78	53.07	28	86	61.64	52.72
1866.....	8	84	34.96	25	82	55.77	30	88	58.73	49.82
1867.....	0	67	31.66	26	76	51.17	33	82	55.37	46.13
1868.....	0	72	42.61	17	78	46.66	34	83	60.96	49.84
1869.....	1	71	32.00	21	77	48.42	35	86	59.16	46.63
1870.....	10	58	35.25	32	84	53.77	40	89	65.56	51.22
1871.....	26	74	46.66	30	80	56.43	37	91	63.11	51.11
1872.....	4	60		25	85	53.74	32	87	63.44	49.66
1873.....	-10	66	35.41	30	86	49.93	37	89	63.40	
1874.....	17	66	39.38	20	74	43.60	34	94	65.30	
1875.....	1	79	35.47	13	82	46.77	32	93	61.79	48.01
1876.....	4	73	35.40	29	79	50.32	37	90	64.23	49.98
1877.....	5	70	33.98	27	81	52.02	30	94		48.35
1878.....	18	70	45.80	30	82	57.77	32	85		54.82
Means..			38.73			50.37			61.50	50.53

MINIMUM, MAXIMUM, AND MEAN TEMPERATURES OF THE SUMMER MONTHS AT URBANA, OHIO, FOR FORTY-SEVEN YEARS.

Years.	June.			July.			August.		
	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.
1832	45	87	68.36	53	88	71.50	53	88	63.34
1833	49	83	68.57	52	91	73.20	50	87	70.11
1834	46	85	68.95	59	93	75.96	50	92	72.96
1835	45	80	67.98	44	84	68.84	49	82	66.64
1836	53	85	67.64	58	87	72.20	46	81	68.67
1837	49	84	66.41	54	88	72.07	47	87	70.63
1838	50	85	70.69	54	92	75.45	57	91	73.98
1839	45	85	62.29	48	90	69.91	47	90	67.82
1840	45	84	67.23	48	88	69.94	48	90	68.58
1841	50	88	73.27	53	89	71.71	50	87	70.24
1842	39	84	64.87	50	88	72.22	47	84	69.92
1843	39	89	66.53	49	92	72.41	50	85	71.54
1844	51	84	68.80	57	88	73.85	51	86	69.21
1845	48	88	70.02	49	88	71.69	54	85	74.32
1846	47	85	66.56	43	93	72.67	56	88	73.73
1847	48	84	68.89	50	83	70.32	47	85	67.71
1848	45	88	68.61	50	84	68.37	53	87	69.37
1849	53	89	71.12	55	88	72.26	53	83	70.53
1850	45	85	70.75	57	90	76.56	50	87	72.68
1851	46	85	66.80	52	89	72.16	49	84	67.96
1852	39	90	68.28	47	94	74.81	46	89	71.65
1853	49	92	73.50	52	89	70.70	46	91	71.21
1854	44	93	70.85	55	97	77.53	46	97	74.35
1855	41	94	67.12	55	95	75.08	46	92	72.50
1856	45	97	71.73	47	96	75.05	34	91	66.66
1857	44	91	67.98	45	92	72.84	47	93	71.70
1858	43	97	73.40	51	90	73.39	41	94	71.83
1859	33	92	67.93	44	96	74.70	41	95	71.28
1860	46	93	69.77	48	90	72.73	44	92	71.68
1861	45	88	70.42	51	89	73.40	47	88	71.85
1862	47	88	66.70	52	92	73.35	43	91	72.45
1863	49	92	68.15	45	92	74.03	35	93	72.61
1864	43	95	70.25	48	95	74.52	45	95	72.56
1865	50	90	74.50	48	91	71.81	44	88	69.70
1866	42	88	69.31	55	91	75.46	43	82	65.44
1867	52	90	73.25	50	91	73.89	44	93	73.08
1868	44	89	69.59	58	96	80.48	50	87	71.45
1869	40	85	68.32	52	93	72.75	48	92	73.92
1870	51	93	70.79	53	94	76.26	50	95	73.13
1871	49	90	71.41	46	93	72.67	48	96	74.68
1872	48	93	71.83	59	96	76.80	46	92	74.03
1873	50	94	73.92	52	91	73.93	51	93	72.95
1874	40	95	75.20	50	90	75.21	50	98	74.43
1875	44	90	68.60	55	92	73.37	49	85	67.81
1876	50	89	71.57	49	91	75.19	48	89	64.50
1877	48	88	69.63	50	89	73.17	50	92	71.24
1878	47	91	66.78	52	92	76.17	53	89	72.56
Means			69.43			73.49			71.03

MINIMUM, MAXIMUM, AND MEAN OF EACH FALL MONTH; ALSO THE MEAN OF THE THREE FALL MONTHS AT URBANA, OHIO, FOR FORTY-SEVEN YEARS.

Years.	September.			October.			November.			Mean of Autumn.
	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	
1832	39	84	57.93	37	80	56.85	27	72	44.63	53.15
1833	45	85	64.83	21	71	51.33	16	63	42.68	52.96
1834	31	82	63.37	30	73	51.15	27	70	43.00	52.51
1835	25	80	55.75	33	74	52.31	7	65	39.57	43.19
1836	41	83	62.42	26	71	45.44	15	61	36.84	50.23
1837	42	83	63.47	28	76	56.09	20	66	44.38	54.65
1838	39	81	60.48	28	77	47.02	7	60	32.93	46.81
1839	28	78	59.50	29	78	57.19	0	58	33.58	50.19
1840	34	77	57.07	21	75	55.65	18	65	40.85	51.19
1841	42	85	66.23	27	75	48.30	16	75	42.15	52.24
1842	36	86	66.43	27	76	51.84	7	71	33.83	50.70
1843	42	86	67.37	18	68	48.22	19	61	38.30	51.29
1844	39	82	64.66	24	71	48.19	15	67	42.70	51.45
1845	40	80	64.00	23	72	50.42	10	65	40.81	51.74
1846	41	87	69.93	26	77	56.06	18	66	45.23	57.07
1847	35	87	62.01	22	73	49.10	17	68	43.75	51.64
1848	33	82	59.05	28	70	51.26	18	53	35.51	48.60
1849	38	81	62.46	33	67	47.41	22	72	49.10	52.99
1850	38	83	64.91	29	73	50.85	21	72	43.48	53.08
1851	41	90	66.68	24	76	52.14	24	69	38.95	52.59
1852	40	82	62.70	33	79	58.60	26	67	38.70	53.33
1853	41	87	63.98	30	72	48.61	24	66	45.57	52.72
1854	37	98	70.00	28	77	55.27	22	59	38.78	54.68
1855	38	90	67.22	25	75	49.03	19	68	42.95	53.07
1856	33	92	62.10	25	89	53.35	11	71	38.28	51.24
1857	30	91	65.40	21	74	50.00	11	70	35.44	50.28
1858	35	90	64.99	31	86	55.50	13	59	35.36	51.95
1859	39	82	63.16	20	80	47.90	17	72	43.70	51.59
1860	36	85	60.90	26	80	53.50	3	73	36.90	50.43
1861 .....	.....	.....	64.20	.....	.....	50.42	21	66	39.88	51.70
1862	34	92	66.80	20	86	54.21	20	71	39.41	53.47
1863	30	88	62.65	24	80	47.41	9	70	42.67	50.91
1864	39	80	63.12	26	68	48.80	10	68	41.09	51.00
1865	45	86	72.37	29	76	50.00	22	71	38.58	53.65
1866	36	82	61.78	28	75	53.38	22	59	40.86	52.01
1867	39	91	62.10	29	80	54.70	8	71	45.11	55.97
1868	32	81	60.46	19	75	49.38	21	70	40.42	50.09
1869	36	88	65.20	20	75	43.74	16	67	34.50	47.81
1870	47	92	68.95	34	76	54.86	23	69	40.38	54.73
1871	31	87	61.54	24	84	55.55	3	62	37.01	51.37
1872	35	92	66.37	29	86	52.18	1	61	33.75	50.77
1873	33	90	63.05	24	84	48.83	9	58	34.12	48.67
1874	40	95	68.94	25	79	53.44	11	73	29.82	50.73
1875	32	88	61.30	27	75	50.01	15	59	37.56	49.69
1876	41	81	63.50	24	77	49.34	17	76	40.53	51.12
1877	44	88	64.92	33	87	56.25	11	62	40.39	53.85
1878	41	84	64.48	23	80	51.99	22	63	41.29	52.59
Means..			62.71			50.68			39.68	50.90

**MINES, MINING, MANUFACTURING,
BUILDING,
LABOR, AND COMMERCIAL INTERESTS OF OHIO.**

GENERAL GEOLOGY OF THE COUNTIES OF COLUMBIANA, STARK, AND TUSCARAWAS.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY COL. CHAS. WHITTLESEY.

STRATA BELOW THE COAL.

Until it is definitely settled what is Portage and Chemung in Pennsylvania, to the Ohio line, those terms cannot be used with much certainty in this State

The paleontologists have lowered the line of the carboniferous here, until it lies below both of them.

Stratigraphically, the following arrangement seems to me the nearest approach to a solution :

First.—Beneath the coal a "*conglomerate group*," embracing the pebbly sand rock, the shales, and the Berea grit, which frequently has pebbles of quartz. Going southerly these graduate into the Logan of Professor Andrews, and include the Maxville limestone, all of which are irregular, but belong to the sub-carboniferous series.

Second.—The "*Waverly Group*," embracing the flags and shales below the Berea grit, to the black or Huron shale. This is characterized by sandstone layers of a finer grain; a greenish-yellow color, and occasional pebbles, rapidly passing into olive or light-green shales, with thin plates of iron ore and ferruginous sandstone. The local subdivisions of these two groups, from the Lake to the Ohio River, yet remain to be worked up.

We must keep constantly in mind the distinction between the general dip of the strata and their local irregularities.

Locally they all present curved and warped surfaces; producing basins, troughs, mounds, and ridges, of no regular pattern.

Taking the lowest places in these basins, representing the sumps and swamps of the mines, over large spaces; the elevations of such points show an inclination quite regular as to direction, but differing materially as to the amount or rate of inclination. Whenever we fix the elevation of three such points, we have a plane of dip for the space represented. Until this is done, there is ample room for mistakes in the identification of strata. Any survey w^h neglected will soon require

rectification. It is much easier to arrange them conjecturally, but quite unsafe. It would be reasonable to conclude that the upheavals of the Alleghany mountain chains, which occurred after the carboniferous epoch, would produce undulations, folds, or disturbances in the Ohio coal strata, but a close examination does not sustain such an hypothesis. The irregularities visible in these beds appear to be due to currents of deposition, which swept about in channels and eddies, producing ridges and hollows on the ancient bottom, as the ocean waters do now.

Beds of sandstone and shale are the most irregular of the series. Those of limestone, iron ore, and coal, are more persistent, because the deposit is due not only to mechanical sediments, but to chemical attraction and segregation. The shales and the sandstones are almost without chemical affinities, and were deposited by currents, with a variable force acting without system. The mineral substances with which the carboniferous seas were charged, sank in comparatively quiet and muddy waters, and therefore with more regularity than the earthy matters; but in neither case with perfect uniformity. Theoretically the thin mineral strata should be, and in fact are, about equally persistent; but it is not safe to assume that any of them are identical with other beds of the same mineralogical character, until the connection is made out by close examination in the field.

We have now all the facts we are likely to have for many years to come, relating to the physical geology of Ohio. Whoever looks through the reports on economical geology, in the coal-producing counties of the north-eastern district, will be unable to reach satisfactory conclusions.

A comparison of the profiles and of the text, where it relates to stratigraphy, will show numerous contradictions.

For the purpose of testing the theory of the persistence of *Coal Sea No. 6*, and of the *Putnam Hill limestone*, I have made a comparison of the vertical sections over a large part of the region. I give, in the form of skeleton profiles, the results of this comparison. To do this fairly, I assume, with the reports, that No. 6 is persistent, and use it as an horizon bringing the other coal and limestone beds into their physical relation on that theory.

I think this comparison, thoroughly carried out, would show that No. 6 and the Putnam Hill limestone cannot both be persistent. If one is the other is not.

After studying this subject since 1837, doing, I believe, as much field work as any other geologist has bestowed upon it, I am not able to say that any one of the coal seams of the lower series is continuous. At least it has not been demonstrated to be so, by exact physical profiles. Between

the typical No. 6 coal, in the valley of the Tuscarawas and that of the valley of Little Beaver, facts are lacking to demonstrate their identity.

The Yellow Creek series is connected with these two valleys, as yet, only by a plausible hypothesis. From Zoar down the Tuscarawas to Coshocton, at the confluence of that stream with the Walhonding, forming the Muskingum, Nos. 5 and 6 are in place, though in several places the elevation is fifty to sixty feet too low. From the southerly part of Coshocton county to the middle of Muskingum and Licking, the connection of No. 6. with the upper New Lexington seam is yet to be proven.

To make these comparisons I am obliged to use a very small scale of profile, and to be content with only a few sections. A large part of them are taken from the official reports. Groups Nos. 1, 2, and 3 follow in regular order, from the State line, through Columbiana, Stark, Carroll, and Tuscarawas counties, to Muskingum. If put together, end to end, they would form a profile of the beds of limestone and coal, for the lower coal series, half way across the State.

Figure No. 1 shows, everywhere in Columbiana county, No. 3 limestone not far below No. 6 coal.

Figure No. 2, sections *a* and *b*, in Carroll county, show No. 5 coal to have a limestone roof, which, possibly, represents the white lime-rock of Columbiana. The other official sections, *c*, *d*, *e*, *f*, *h*, *i*, do not show it. Between the Zoar section, *Figure No. 2*, *f*, which is typical for No. 6 coal, and the Zanesville section, *Figure No. 3*, *g*, typical for the "Putnam Hill limestone," there is represented a space of about fifty miles, in a direct line. The local sections of the reports for this space show, in places, two, three, and four beds of limestone beneath Nos. 5 and 6 coal. Probably a thorough exploration would bring out three seams over most of this space. Beginning at Navarre, in Stark county, Nos. 1, 2, and 3 are found in regular order, on both sides of the river; also at the forks of Sugar Creek, and thence, wherever the valleys are deep enough for them, over the summit, southerly, towards Coshocton, full half way to Zanesville.

I insert below a tabulated list of elevations at points where the three beds of lime-rock are found in the same hill.

FIGURE 1.—GROUPED SECTIONS, COLUMBIANA COUNTY, OHIO.
(Vertical scale $\frac{1}{4}$ inch to 100 feet; 530' A. elevation above Lake Erie.)

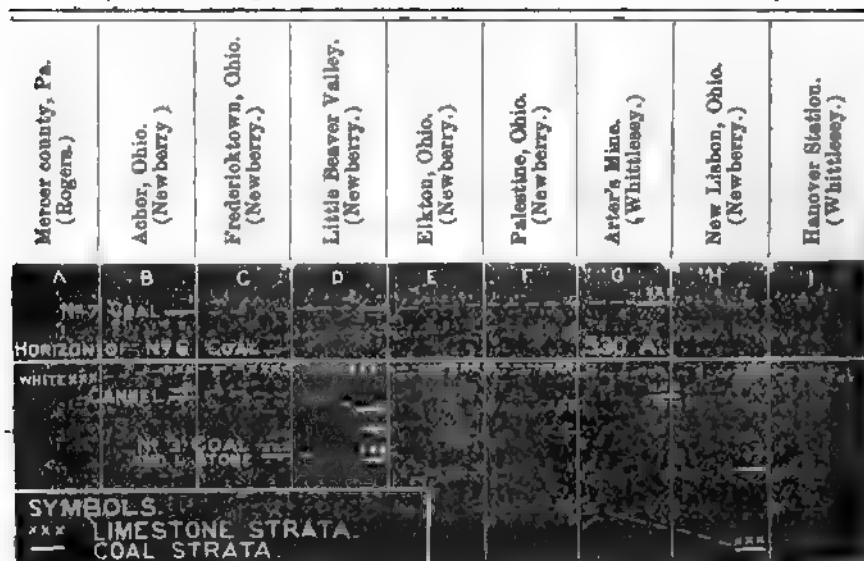


FIGURE 2—GROUPED SECTIONS, STARK, CARROLL, AND TUSCARAWAS COUNTIES.
(Scale and symbols same as in No. 1.)

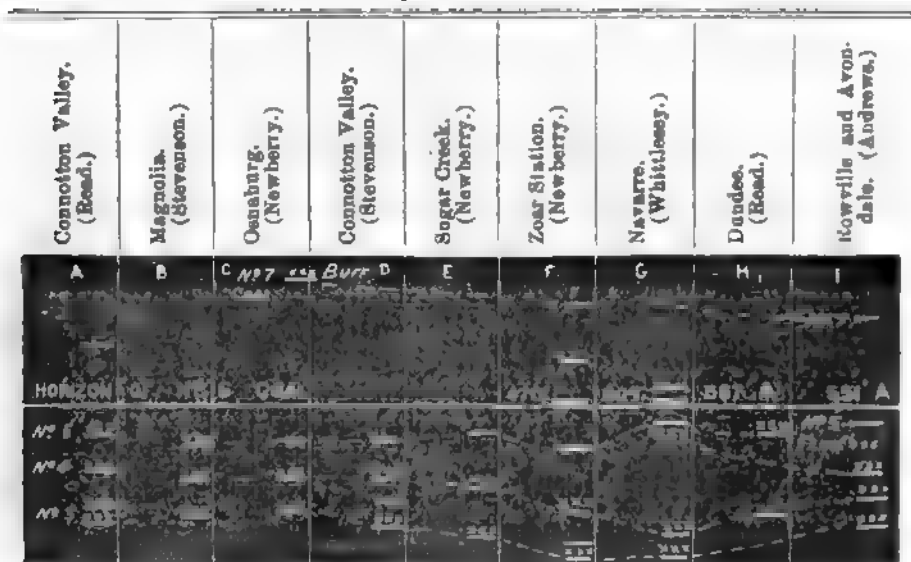
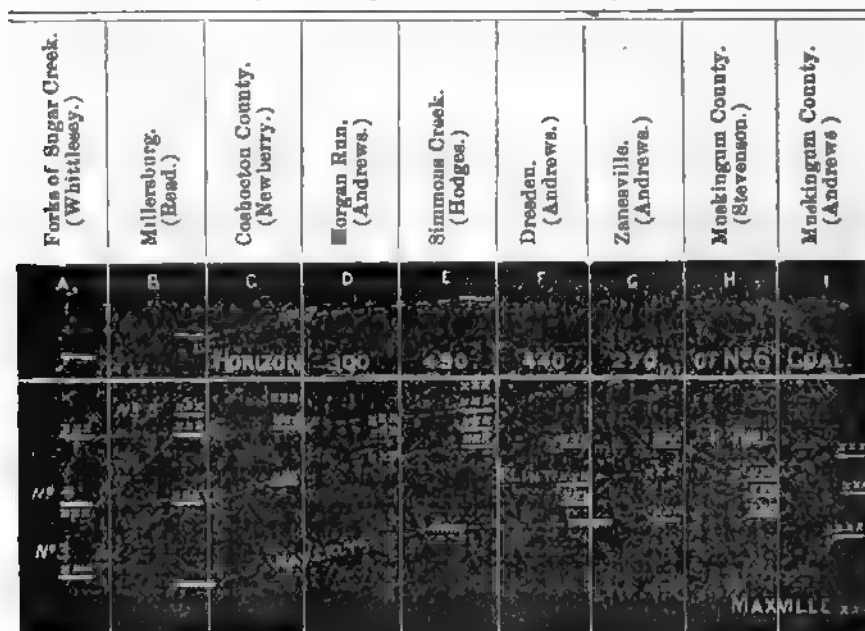


FIGURE 3.—GROUPED SECTIONS, TUSCARAWAS, COSHOCTON, AND MUSKINGUM.

(Scale and symbols same as in No. 1.)



This upper bed, or No. 3, not having entered into the official observations, the premises being false, the conclusions must of necessity be wrong. The question arises, to which of the three beds on Sugar Creek shall the typical Putnam Hill limestone be attached? Is it the equivalent of any of them? The connections I have made, by dotted lines in Figure No. 3, are not to be regarded as conclusive; they are simply official. It is much more probable that it should be connected with No. 3 limestone.

No. 2, or the "gray limestone," cannot be forced into the position of the Putnam Hill in the present state of information.

If the gray limestone of Tuscarawas could be shown to be the same as Prof. Andrews' typical Putnam Hill, this chasm would be bridged over. As yet only a few of the timbers are set up, and at points not in close relation to each other.

The Upper New Lexington seam, at Zanesville, assumed to be No. 6, is continuous to the Hocking Valley at Nelsonville, where it passes beneath the highlands that continue to the Ohio River. In this space, the number and the equivalency of the beds has been a subject of much discussion. As Prof. Andrews has devoted more time to this field than any other geologist, and his local sections are more numerous than all others, it is reasonable that we give most weight to his opinions.

By reference to Figure No. 4, the position of the three limestones will be understood, over a space of forty miles. All of the regular beds have coal under them, which is not represented on account of the small scale I am obliged to adopt. All of them have bunches and layers of flint, which sometimes extend to the entire thickness of the stratum. As groups, the three limestones and the three coals above them, Nos. 5, 6, and 7, are quite regular. Coals over limestones, so far as I have observed, have shale beneath, never resting upon the lime-rock, while coal seams underneath the lime-rock are without this intervening shale—the limestone forming the roof.

For the Sugar Creek Valley, the following arrangement fits better with the official nomenclature, than any other which I can devise on present information :

FIRST—COAL.

At the base of the series, Coal No. 1, beneath the shale underlying the "Massillon sandstone." Immediately beneath this sand rock is an irregular show of coal, of no practical value, known as No. 2.

SECOND—LIMESTONE AND COAL.

Limestone, No. 1, forming the roof of Coal No. 3; the coal often wanting and seldom workable. This limestone is frequently overlaid by iron ore. The place of Coal No. 1 is about one hundred and sixty feet below this limestone.

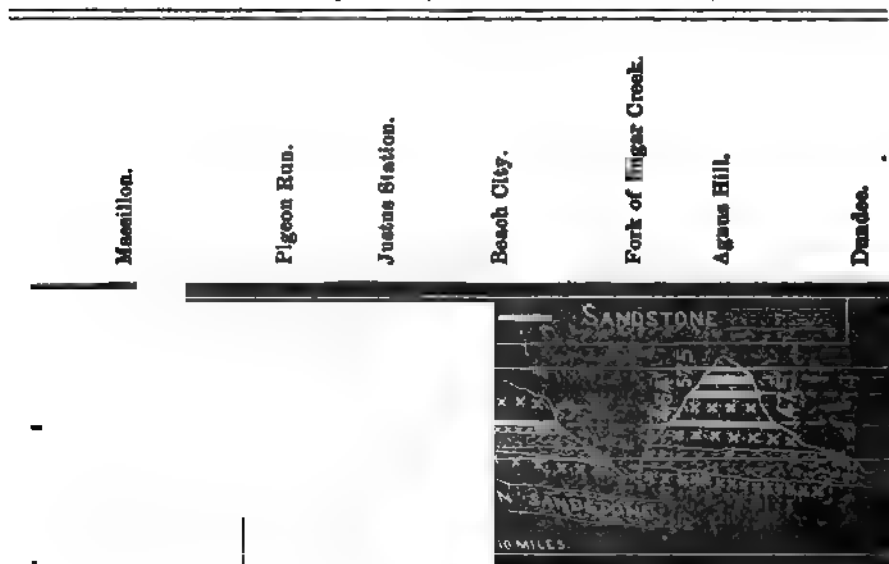
THIRD—SANDSTONE.

The second, or "Deardorff Sandstone," is very irregular in thickness. Beneath it there is occasionally a bed of thin irregular coal, sometimes called No 3a, and also No. 4. It may be seen at Sheplar's, at Zoar Station, and at the forks of Sugar Creek. Between it and the Massillon Sandstone there is a black or dark colored shale of considerable thickness. In the published profiles, this sandstone is confounded with the Massillon, the top of which is forty to fifty feet below.

FOURTH—LIMESTONE AND COAL.

Limestone No. 2, over Coal No. 4, which is probably not "Putnam Hill." In places there are both coal and fire-clay beneath this limestone. Between Limestone Nos. 2 and 3 there is another bed of sandstone, thirty to eighty feet thick.

FIGURE NO. 4.—OUTLINE PROFILE FROM MASSILLON
[Distance, 40 miles. Scale, horizontal, 440 miles to an i



FIFTH—COAL.

A bed of coal, three to four feet thick, ten to thirty feet above the last named stratum of limestone, which is of good quality for general uses, is opened at Fisher's mine, near Justus Station, five hundred feet above Lake Erie, also, near Bolivar, and at Weimars, 488' A, Agnus Hill, 476', Dundee, Barr's Mill, and around Shanesville, near which it passes beneath drainage.

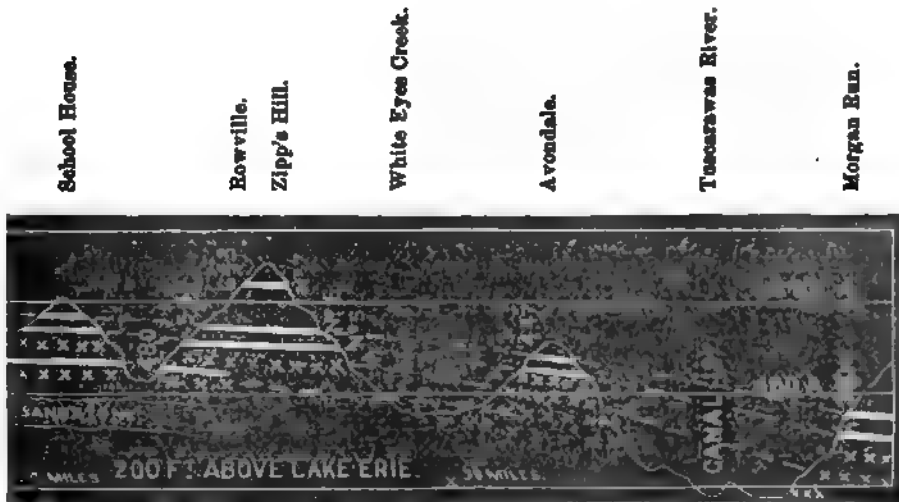
SIXTH—LIMESTONE AND COAL.

Within a vertical interval of seventy-five to ninety feet, Limestone No. 8 comes in, over which in some places is a heavy sand-rock, in others a heavy bed of shale.

This corresponds to the white lime-rock of Columbiana county, and resembles the Putnam Hill, in being the first beneath Coal Nos. 5 and 6. It does not everywhere carry coal beneath it, but as it does in some places, and also fire-clay, in accordance with the Ohio system it should have a place among the numbers. At Avondale, all three of the limestones and their underlying coals are seen, according to Prof. Andrews, in regular order, but compressed into a vertical space of only sixty-eight feet. There is, besides, a bed of flint next below Coal No. 5, and, below all, a sandstone.

THROUGH SUGAR CREEK VALLEY, TO COSHOCTON.

vertical, 400 feet. Elevation in figures.]



SEVENTH—COAL NO. 5.

Generally, within thirty feet of the third limestone, there is a bed of coal corresponding to No. 5 of the reports. It is not everywhere workable; but, within a few feet above it, there is frequently a show of iron ore, often in great force. A heavy bed of dark brownish red shales occupies most of the space from No. 3 Limestone to No. 6 Coal, well charged with ores of iron. This bed is above the Limestone Group. It is an error to place this seam beneath the No. 3 Limestone.

EIGHTH—COAL NO. 6.

Twenty to thirty feet above No. 5 is the most regular and valuable coal of the series in northern Ohio. It ranges from $3\frac{1}{2}$ to $4\frac{1}{2}$ feet in thickness. Generally, after passing a light bed of shale, there is over it a heavy stratum, of irregular thickness, known as the "Mahoning" sandstone.

NINTH—COAL NO. 7.

From ninety to one hundred feet above Coal No. 6, No. 7 comes in, capping the hills, above which is the well-known horizon of *blackband* and *mountain ore*. The coal is of very little value, except for calcining the ore which overlies it. Above it there is, in some places, a lime-rock,

having a blue, buff or white color, but it is not as regular as the lime-rock lower in the series. The area of this coal is comparatively small. At Sander's Mine, west of the Kilbuck, and at Trenton, on the Tuscarawas may be seen a blue lime rock between Coal Nos. 6 and 7, which is probably local.

The sections at Zoar, Mineral Point, the tunnel, on the Pittsburgh Branch Railroad, and near Magnolia, are quite diverse, and, therefore not reliable, as representing a type of the series. The one made with an engineer's level by Mr. Jones and myself, near Navarre, comes much nearer to a typical section.

Since Profile No. 4 was engraved, the railway company has taken additional side levels to the beds of limestone, iron ore, and coal in Sugar Creek Valley. These have disclosed more of the irregularities in the surface and the thickness of the Deardorf sandstone. At Wm. Adams's a mile and a half north of Dundee, its surface is 460' A., with a thickness of about fifty feet. At Graber's old mill, one and one-half miles northwest, it rises to 488' A., with a thickness of about one hundred and eight feet. Four miles southerly, at Barr's Mill, it has sunk to four hundred feet, thickness not seen, and at School-house No. 7, three miles further south, rises to 462'.

The middle limestone conforms in part to these depressions, and in places is cut out by the elevations. At Adams's, it is 472'; at Barr's Mill, 413'; and at Shanesville, 454'. The Fisher Coal does not conform as closely to the sandstone as the lime rock. At Adams's it is about 484', at Barr's Mill about 463', and at Shanesville 458'.

Across the valley, east from Shanesville, on the land of Ben Hochstetler, about twenty-five feet above the Upper Limestone, a fourth lime-rock exists, which extends southerly to within a mile of Rowville, but was not seen on the west side of the valley, and is doubtless local. In places it is eight feet thick, and produces the whitest lime I have seen in the coal series. It is loosely bedded, coming out in thin, rough slabs, of a gray color. Two miles south of the Rowville Summit, I saw a lime-rock about twenty-five feet above Coal No. 6, corresponding to what I have noticed above this seam at Sander's mine, west of the Kilbuck, and at Trenton, on the Tuscarawas, of which I find no mention in the reports. On the west side of Sugar Creek Valley, there is a very great change in the sandstone beds, both above and below Coal Nos. 5 and 6.

These upper coal seams and their shales are the most uniform strata of this region. On the eastern side of the valley, the so-called Mahoning sandstone is slaty, and seldom visible, and in its place are heavy beds of shale.

The typical Putnam Hill Limestone is at Putnam, opposite Zanesville, eighty feet below the Upper New Lexington, Great Seam, or Nelsonville Coal, as it is variously called. Here this lime-rock lies about eighty feet above the channel of the Muskingum River, and one hundred and ninety feet above Lake Erie. Prof. Andrews has traced it northerly up the valley to a point eight miles north of Dresden. The detailed sections made by himself and Mr. Jones at Morgan Run, near Coshocton, do not fix the places of the Putnam Hill Lime-rock, with certainty ; nor of the so-called Coal No. 6. Those made by Prof. Newberry in the valley of Simmons's Creek, eight miles west of Coshocton, do not determine its position there, nor do those of Prof. Stevenson and Prof. Read in the valley of the Licking. More physical sections and closer comparisons are necessary to demonstrate the position of the Putnam Hill Limestone in Coshocton county. For the purposes of this paper, I assume that No. 3 Limestone of the Avondale Profiles, made with strict accuracy by Prof. Andrews and Mr. H. D. Dennis, is the Putnam Hill, 384 A. L. E.

As all the profiles show a different number of seams of coal and beds of limestone in different parts of the Ohio Coal Field, it follows, of necessity, that a part of them disappear, or that additional ones come in,

The following abstract proves conclusively that all the beds can not be persistent :

ENUMERATION OF COAL SEAMS AND BEDS OF LIMESTONE IN VARIOUS PARTS OF THE COAL FIELD OF NORTHERN OHIO, REVERSED TO SEAM NO. 6.

Locality.	Number of coal seams.			Number of lime- stone beds.			Vertical spaces, No. 1 to No. 6, coal seams.	Thickness of lower bar- ren measures.	Remarks.
	Below No. 6.	Above No. 6 to barren meas- ures.	Total.	Below No. 6.	Above No. 6 to barren meas- ures.	Total.			
Mercer and Beaver counties, Western Penn..	12	1	14	3	1	4	600	370	Rogers' Final Report.
Columbiana and Mahoning counties, on the Pennsylvania line	7	3	10	4	2	6	520	.....	Ohio Reports.
Line of C. & P. Railroad, Ravenna to New Chambersburg, Ohio	4	.....	.....	3	.....	.....	720 (W.)	.....	.....
Massillon, Stark county, to Zoar, Tusca- rawas county	6	2	9	2	.....	.....	374 (N.)	.....	.....
Yellow Creek, Jefferson county	5 (N.)	2 (N.) 5 (W.)	8 (N.) 10	2	5	7	310 No. 2 to No. 6 (N.)	500	Beds not the same on differ- ent sides of the valley.
Valley of Kilbuck, Holmes county	7	2	.....	2	2	4	250	.....	.....
Valley of Black Creek, Holmes county	4	.....	.....	2	2	4	373	.....	.....
Frederickburg, Wayne county	2	.....	.....	1	.....	.....	200	.....	.....
Simmons's Creek, Coshocton county	4	.....	.....	2	2	.....	211	.....	.....
Muskingum county	4	9	14	2	2	.....	.....	140	Prof. E. B. Andrews.

In the proceedings of the *Boston Natural History Society* for November, 1874, I gave reasons why No. 6 coal in the Coshocton county profiles, may not be the seam having the same number in the Tuscarawas profiles. The final report places their identity in a better light than before, but does not fully settle the question. They can not be brought into harmony upon the theory of undulations, caused by the uplifts of the Alleghanies, for the axes of the undulations lie at all angles with these uplifts, showing that they are merely local troughs, and basins of deposition. Frequently, the lower coal seams were deposited in pre-existing hollows of the Waverly, and thus are limited on all sides by the edges of those local basins. Such circumscribed beds can not be said to be the equivalents of beds in other basins, until the connection is proven by exact physical profiles.

From the Muskingum to the Hocking the identity of seams No. 5 and 6, which form a pair, and lie only twenty-five or thirty feet apart, may be considered as established, the Upper or No. 6 being the Great Seam of Perry county. Beyond this, towards the Ohio River, there is still a discussion between Professor Andrews and other eminent geologists, in regard to the equivalents of the Putnam Hill limestone, and of the No. 6 coal. If it can be established that No. 6 is continuous from the Pennsylvania line to the Ohio River, the reports will be vindicated, and the Ohio system will assume much more simplicity. At present it can only be said that one coal seam has been traced with certainty through the series, and that is the *Pittsburgh, Wheeling, and Pomeroy bed*, above the so-called barren measures.

Using this as the only well-fixed horizon, there are below it, as represented in the above table, in Columbiana and Jefferson counties ten (10) seams of coal and six (6) of limestone. In the Conotton Valley, according to Prof. Read, there are seven (7) beds of limestone, and seven (7) of coal. In Muskingum county eight (8) seams of coal, and twelve (12) of limestone. Further south, at Hocking and Athens counties, different observers do not agree as to the number of limestone, iron ore, and coal strata. There are profiles showing eleven (11) beds of limestone, and seven (7) seams of coal. In Gallia and Lawrence counties, on the Ohio River, Messrs. Andrews and Gilbert give in the same vertical space, seven (7) beds of limestone, and ten (10) of coal.

On the waters of the Tuscarawas, in the county of Stark, the west half of Carroll, Tuscarawas, Wayne, and Coshocton, is a geological field, where the strata have many features in common, which may be recognized as far south in Licking and Muskingum counties as the Licking River and the National Road. Beyond this line in that direction, changes occur in

the number and the character of the beds, which renders it difficult to establish strict identity in the series.

In the other direction, on the waters of the Great and Little Beaver Rivers, and of Yellow Creek in the east half of Carroll, in Columbiana, Mahoning, and Trumbull counties, and over the line in Pennsylvania there is also a manifest difference in the deposits, from those on the water of the Tuscarawas. Notwithstanding these variations, Professor Newberry concludes, that coal seams Nos. 5 and 6 are continuous from the Pennsylvania line on the east, through the summits between the water of the Beaver and the Tuscarawas Rivers, to Zoar, Trenton, Coshocton, Zanesville, New Lexington, and Straitsville.

Coal seam No. 1 has been traced from the valley of the Mahoning, on the east line of the State, along its outcrop through Portage, Summit, Stark, Wayne, and Holmes counties.

No. 1 coal beneath these very regular beds, is very irregular of deposition. It consists of a series of hollows and ridges, sometimes connected and at others isolated, the rims of which are thirty to fifty feet above the bottom. In the coal seams above the lower lime-rock group, the same irregularity may be seen. Coal seams Nos. 5 and 6, and the associated rocks on Yellow Creek, vary in level eighty and one hundred feet in a mile. At Morgan Run, near Coshocton, there are waves in the upper seams like those at Massillon and Niles in the lower ones.

No. 3, or the lower limestone coal seam, is readily traced from the Mahoning Valley westerly, lying about one hundred and sixty feet above No. 1, as far to the west and south-west as Sugar Creek Valley, in the north-western part of Tuscarawas county.

ELEVATIONS OF POINTS IN THE LIMESTONE GROUP.

Places of observation.	Elevations above Lake Erie.			Vertical space of the group.
	Lower limestone, No. 1.	Middle limestone, No. 2.	Upper limestone, No. 3.	
Poland	340(?)	365(?)	425(?)	85(?)
New Lisbon	290	Not given.	485	195
Navarre	452	477	565	113
Bolivar	386	422	450	64
Agnus Hill	370	476	557	187
Avondale	316	351	384	68
Zoar	300	370	Not seen.	Not seen.
Magnolia	336	376	416	80

From the Mahoning westerly to the heads of "Big Sandy," near Hanover Station, only a short space below No. 6 coal, is a bed of lime rock,

designated as the "white limestone." This is not to be confounded with the white lime rock above the so-called No. 7 coal, on Yellow Creek.

The connecting link between the Tuscarawas Valley series and that of Little Beaver, is the lime rocks Nos. 1 and 2, over the so-called coals Nos. 3 and 4. Above these beds the strata are far from regular or persistent, requiring further and closer examination.

The profiles made by Prof. Stevenson, near Magnolia, in the north-west corner of Carroll county—by Prof. Newberry, at Mineral Point and Zoar Station, near the north-east corner of Tuscarawas county—by myself, from Bolivar to Massillon, in Stark county, and by Prof. Andrews, in Sugar Creek valley, near the forks at Deardorf's Mill, are so diverse, that they cannot as yet be made to fit each other. (See Figures 1 and 2.)

The great puzzle of our system is, to determine where those beds which are lost, terminate, and where those which are nearly on the same horizon, come in. Nothing but exact physical work can determine those points, and in many parts of the field such work is yet wanting. If the strata taper out on the line of their strike, they must also taper out on the direction of their dip, and therefore, in some instances, exist only as local patches. This feature of the Ohio series renders it one exceptionally difficult to survey.

I find in the reports frequent allusions to the completeness and value of this survey. Here, in the midst of the series, is an area of at least five townships, occupying a valley twenty miles in length, embracing all the beds of the lower coal strata, open to inspection in hundreds of places, with all the materials for making iron in abundance. The valuable information which the public may extract from all the reports relating to this region, might have been acquired by an active explorer in one day.

The officers of the C., C., C. & S. Railroad Co. found so little had been done in this region, that it was necessary for the company to make a detailed survey for itself. Prof. Andrews, in the prosecution of this work, with the assistance of Mr. H. D. Dennis, and of W. Jones, the engineer, was unable to connect these beds with those of the valley of the Kilbuck on the west, or of the Tuscarawas on the east. An undiscovered horizon of blackband ore was brought to light by him, and a bed of coal, not noticed by the Survey. For these reasons, it becomes necessary to give something more than a general notice of this important mineral region. The sandstones are not a reliable guide in determining the equivalency of strata; in truth, the more complete and exact our explorations become, the more numerous and more perplexing these irregularities appear.

Until the third limestone was discovered by Prof. Andrews, in the

Sugar Creek valley, it did not seem possible that No. 6 could be persistent. By extending the white limestone of Columbiana county—the first one below No. 6 coal—to the westward, through Tuscarawas, the position of the report is strengthened. On that basis the place of No. 4 coal and No. 2, or the “Putnam Hill limestone,” must be changed in several of the sections.

The Zoar section, which is a typical one for this region, and to which the lower coal series of the State has been forced to conform, does not show this lime-rock. (See profile No. 2.) Until it was observed in the Sugar Creek valley, I did not feel sure of its existence west of Hanover, in Columbiana county, although there are fragments of it in the drift of Suffield, in Portage county. It is only for convenience and provisionally that the terms *blue*, *gray*, and *white* are applied to the lower, middle, and upper limestones. All of them are, in places, blue; all of them have coal beneath, and, generally, a show of iron ore above.

Large quantities of shell and block ore have been mined, resting upon No. 2, or the “gray limestone” of the reports. This has also been confounded with the white or No. 3. Its existence there, though unfortunate for the typical section of the State, sustains the theory of the report in regard to the general persistence of No. 6 coal seam. The Putnam Hill limestone is, however, thrown out of place in several cases by the better establishment of this coal.

Where this is made typical among the limestone beds, by Prof. Andrews, it is the first regular bed below Coals Nos. 5 and 6, between which there are no lime strata in that part of the State.

Using the physical sections of Mr. Jones, I connect this bed with the upper one at Rowville, 480' A., and 71 feet below No. 6 coal, rising to the northward as far as Fisher's coal mine, where it is 538" A. The lower limestone coal at Avondale thus becomes No. 1 of the Ohio series, over No. 3 coal, and the middle one No. 3a. Above this, No. 3b coal is wanting here. The bed of flint on this profile next below No. 5 coal is probably local. In the valley of White Eyes Creek, according to Prof. Andrews, the Avondale profile holds good, with little variation.

No. 4, of the report of 1870, is now regarded as No. 3a. No. 4 proper, is the second, or “gray limestone” seam, a companion of No. 1, in both of which there is a lime-rock roof. From the valley of the Mahoning to that of the Tuscarawas, near Massillon, they are only twenty-five to thirty feet apart, very regular and conformable. The lime beds being the result of an action not merely sedimentary, but, like the iron ores, also of chemical segregation, in quiet waters will form in more perfect planes than the shale, sand-rock, and coal strata.

On the west side of the south fork of Sugar Creek is the usual bed of sand-rock over Coal No. 6. On the east side of the same valley it is principally wanting, replaced by shale, in which are important beds of iron ore. Such irregularities in our deposits perplex the explorer, but should not surprise him, for this is one of the most uniform characters of the Ohio series. This fact should make him very cautious in deciding upon equivalents.

The Deardorff sandstone overlying No. 3 coal, and its lime-rock, is easily traced from Justus Station to Beach City and Agnus Hill, and thence on both sides of the valley to school-house No. 7. Neither the Deardorff sandstone, the limerock just above it, nor the coal bed a few feet higher, fall into proper relations with the beds named in the survey.

The lime-rock, 38 feet above the Fisher coal, 538 feet above Lake Erie, is at the Shetlar mine, near Navarre, 542 feet, and 36 feet below Coal No. 5. Here No. 6 is 42 feet higher, overlaid by sandstone to the top of the hill, 30 to 40 feet thick. At Agnus Hill No. 5 is worked at an elevation of 575 feet. At Shetlar's it is heavier than No. 6.

The Fisher bank, Weimar's, lower Agnus, Schrock's, and Nead's banks, with those in the same horizon, for convenience of description I have called No. 3b. This coal is very regular in thickness, 3 to 3½ feet, easily wrought, lies above drainage, and is of mercantile value. As a part of the geological series, it must be regarded as local, covering a comparatively small field. South of the summit it has not yet been found. It is highly probable, however, that the lime-rock No. 2 in the Avondale profile of Prof. Andrews is the same that crops out on Sugar Creek, 10 to 20 feet below this coal. Here there is a coal bed underlying it, which I have called No. 3a.

On the west side of the valley No. 6 is well defined, from Wilmot to Shoup and Baker's mine, overlaid everywhere by a heavy sand-rock, 40 to 60 feet in thickness, forming the surface of a high ridge, 640 to 660 feet above Lake Erie. It is 3½ to 5 feet thick, and has a very strong heating power. Following it southerly to Shanesville, Harman's, and Farmersville, it becomes more dry burning, and is a very bright black and handsome coal. No. 5 in this direction becomes less regular, but is workable in several places.

In profile No. 4 I have represented the general structure of this region. Beds within two miles of the general course of the profile are projected on a vertical plane, which is placed near the line of the Tuscarawas Valley and the Beach City and the Coshocton Railways. It represents three beds of coal, and in places four, having a workable thickness. In no place is there less than one, and in many places ~~three~~ beds of limestone

above drainage. The iron ores are not represented. Along the highlands between Sugar Creek and the Tuscarawas, ore has been uncovered at numerous points from Navarre to Strasburg, principally over No. 2 limestone and No. 5 coal. These ore seams appear on both sides of the south fork of Sugar Creek, as far as Rowville, and some of the hills are high enough for those over No. 7 coal.

The above table of elevations in the limestone group shows that the railway route from Canton, by Beach City to Rowville, is nearly on the line of bearing of the strata where they are approximately level. Limestone No. 3, at Navarre, is 566, a mile east of Beach City 536, Agnus Hill, 551, Shanesville, 486, Rowville, 480. I have calculated the local dip of all the beds in the vicinity of this line, and find it to be south-easterly, but very slight, 12 to 15 feet per mile. The lower limestone, or No. 1, on a line due south from Greentown to Zoar, a distance of 25 miles, sinks from 455 to 300 feet, or 155 feet. From Rowville south the beds dip more rapidly. No. 6 coal, which is here 551, is at Avondale 447, a difference of 104 feet in five miles.

At Coshocton it is not well settled which of the beds is No. 6. At Trenton, 15 miles south, 70° east from Rowville, it is 336 feet, making a descent of 215 feet, equal to 14½ feet per mile. Over small spaces, when the local undulations are considered, the beds for mining purposes may be regarded as level, the best points for making entries to be determined by survey of each location. Here the number of seams of coal in the lower series is *nine*, but of these only *four* are of merchantable value.

CLEVELAND, OHIO, November 1, 1878.

IRON AND COAL STATISTICS.

IRON ORE.

Number of tons iron ore mined in Ohio, as reported by township assessors	288,886
Number of tons iron ore from other States (used in Ohio), as reported by township assessors.....	397,107
Number of tons iron ore from foreign countries, as reported by township assessors	160
Total number of tons used in Ohio, as reported May, 1878.....	686,153

PIG IRON MANUFACTURED IN OHIO IN 1877.

Number of tons cold blast native ore charcoal pig iron	8,436
“ hot “ “ “	309,624
“ “ “ stonecoal “	170,226
“ native or foreign “ “	156,128
“ “ “ charcoal “	23,627

Total number tons pig iron manufactured in Ohio, as reported by township assessors May, 1878.....	623,944
Total number tons pig iron manufactured in Ohio in 1877, as reported by the American Iron and Steel Association.....	600,386
Total number tons pig iron manufactured by sixteen Ohio furnaces in 1877, as reported by the proprietors	157,973
Least number tons pig iron manufactured by any one of the above sixteen furnaces	1,569
Greatest number tons of pig iron manufactured by any one of the above sixteen furnaces.....	29,000

The following table from the report of James M. Swank, Secretary of the American Iron and Steel Association, shows the production of pig iron in Ohio, by districts:

	Furnaces December 31st.	Condition of furnaces on December 31st.					Make of pig iron in net tons (tons of 2,000 pounds).					
		1876.		1877.			1872.	1873.	1874.	1875.	1876.	1877.
		In	Out	In	Out							
Hanging Rock coke	16	4	11	7	9	23,169	22,601	22,613	32,990	44,980	44,944	
Mahoning Valley.....	21	8	12	6	13	129,736	126,972	121,000	112,900	127,546	126,426	
Hocking Valley	13	2	1	7	6				1,980	7,020	22,926	
Miscellaneous coke.....	23	13	11	13	16	126,196	120,950	124,700	190,700	121,007	122,216	
Hanging Rock charcoal.....	21	11	14	14	17	67,440	62,305	66,072	67,413	66,000	66,922	
Miscellaneous charcoal	2	1	2		3	6,100	6,123	6,900	4,900	6,100	1,900	

The following table and summary, for 1877, from the same report, exhibit the growth of the several branches of the pig iron trade in the United States from 1854 to 1877 :

Years.	Anthracite.	Charcoal.	Bituminous coal and coke.	Total.
1854	339,435	342,298	54,495	736,218
1855	381,866	339,922	62,390	784,178
1856	443,113	370,470	69,554	883,137
1857	390,385	330,321	77,451	798,157
1858	361,430	285,313	58,351	705,094
1859	471,745	284,041	84,841	840,627
1860	519,211	278,331	122,228	919,770
1861	409,229	195,278	127,037	731,544
1862	470,315	186,660	130,687	787,662
1863	577,638	212,005	157,961	947,604
1864	634,018	241,853	210,125	1,135,996
1865	479,558	262,342	189,682	931,582
1866	749,367	332,580	268,396	1,350,343
1867	798,638	344,341	318,647	1,461,626
1868	893,000	370,000	340,000	1,603,000
1869	971,150	392,150	553,341	1,916,641
1870	930,000	365,000	570,000	1,865,000
1871	956,608	385,000	570,000	1,911,608
1872	1,369,812	500,587	984,159	2,854,558
1873	1,312,754	577,620	977,904	2,868,278
1874	1,202,144	576,557	910,712	2,689,413
1875	908,046	410,990	947,545	2,266,581
1876	794,578	308,649	990,009	2,093,236
1877	934,797	317,843	1,061,945	2,314,585

PRODUCTION OF PIG IRON IN 1877.

“ The production of pig iron in the United States in 1877 was 2,314,585 tons of two thousand pounds, against 2,093,236 tons in 1876, a gain of 221,349 tons, or about 10½ per cent. Twenty-two States made pig iron in 1877. As compared with other years, immediately before and since the panic, the production of 1877 shows a decided reaction from extreme depression, but still falls far short of the country’s best achievements. The figures are as follows : 1872, 2,854,558 net tons ; 1873, 2,868,278 tons ; 1874, 2,689,413 tons ; 1875, 2,266,581 tons ; 1876, 2,093,236 tons ; 1877 2,314,585 tons. The production in 1877 was about 50,000 tons greater than in 1875. The year 1876—the Centennial year—was the year of least production since 1872, and 1873 was the year of greatest production in the history of American pig iron.

“ Of the total production of pig iron in 1877, 1,061,945 net tons were made with bituminous coal and coke, 934,797 tons with anthracite, and 317,843 tons with charcoal. In 1873, the year of greatest production, the proportions were as follows : Anthracite, 1,312,754 net tons ; bitumi-

nous coal and coke, 977,904 tons; charcoal, 577,620 tons. It will be seen that, while the production of anthracite and charcoal pig iron has largely fallen off, that of bituminous coal and coke pig iron has ver; materially increased.

"During the year 1877 the number of furnaces abandoned almost equaled the number of furnaces constructed, the total number of furnaces at the close of the year which were in blast, or ready to be put in blast at short notice being 716, as already stated, against 712 at the close of 1876, showing an increase during 1877 of only four furnaces. The number of furnaces erected during the year was 17, and the number permanently abandoned was 13; net increase, four. The only district in the country in which there was any marked activity in the building of furnaces was the Hocking Valley district of Ohio, in which nine furnaces were built, the total number amounting to 13 at the close of 1877, against four at the close of 1876.

CONSUMPTION OF PIG IRON IN 1877.

"The consumption of pig iron in 1877 was apparently greatly in excess of the consumption in 1876. The production was greater and stocks in the hands of makers were reduced. At the close of 1876 makers' stocks amounted to 686,798 net tons, and at the close of 1877 this quantity had been reduced to 642,351 tons, a difference of 44,447 tons. The imports of pig iron in 1877 amounted to 66,871 net tons, and our exports to 7,687 tons, showing a difference in favor of importations of 59,184 tons. If we add the production of 2,314,585 net tons in 1877 to the reduction of 44,447 tons in stock and the net importation of 59,184 tons, we have an approximate consumption last year of 2,418,216 tons, against 2,172,503 tons in 1876. This increased consumption, which was due to the increasing demand for iron and to the ruinously low prices which prevailed throughout the year, must have been mainly confined to the car-wheel works, machine shops, pipe works, and other foundries, as we rolled less iron in 1877 than in 1876 and made but little more Bessemer steel. Doubtless considerable quantities of pig iron went to swell the business of a hundred small industries which shared the general improvement in demand for iron wares. That the increased production of 1877, the decreased stock in makers' hands, and the imports of the year represent consumption there can be no doubt, as there was no speculative demand at any time during the year, nor any noteworthy disposition by the proprietors of mills and foundries to buy ahead of immediate requirements.

"But the fact remains, notwithstanding the increased consumption of 1867, that prices of pig iron were alike unsatisfactory to the capital in-

vested in its manufacture and to the labor which produced it. Neither was adequately rewarded, and in many instances the sheriff's writ attested that capital was not rewarded at all."

COAL STATISTICS.

Number of tons of coal mined in Ohio in 1877, as reported to the county auditors by township assessors in May, 1878.....	3,526,804
Number of tons of coal mined at fifty mines in Ohio, as reported by the proprietors of mines in 1877	2,210,250
Least number of tons mined at any one of the fifty mines in 1877	2,344
Greatest number of tons mined at any one of the fifty mines in 1877.....	424,000

TABLE SHOWING THE AMOUNT OF PIG-IRON PRODUCED IN OHIO AS REPORTED BY TOWNSHIP ASSESSORS TO COUNTY AUDITORS IN MAY, 1878.*

Counties.	Tons cold blast native ore smelted with char- coal.	Tons hot blast native ore smelted with char- coal.	Tons hot blast native ore smelted with stone coal.	Tons native or foreign ore smelted with stone coal.	Tons native or foreign ore smelted with char- coal.
Athens.....	.....	270,000	17,000	.....	.....
Belmont .....	.....	.....	.....	13,130	.....
Columbiana .....	.....	.....	.....	38,400	.....
Cuyahoga .....	.....	.....	32,000	.....	.....
Jackson	1,800	13,602	15,772	.....	15,837
Jefferson .....	.....	.....	.....	12,986	.....
Lawrence	4,636	8,265	1,300	29,393	.....
Mahoning	2,000	.....	22,026	46,581	.....
Perry .....	.....	.....	18,077	.....	.....
Scioto .....	.....	3,540	330	330	7,990
Trumbull .....	.....	14,117	18,830	15,302	.....
Totals	8,436	309,524	125,335	156,122	23,827

*No other counties reported.

THE PRODUCTION OF ROLLED IRON AND STEEL, IN 1877, IN THE UNITED STATES.

FROM THE ANNUAL REPORT OF JAMES M. SWANK, SECRETARY OF THE AMERICAN IRON AND STEEL ASSOCIATION.

GENERAL SUMMARY OF ROLLED IRON PRODUCTION.

The following table will show the production of all forms of rolled iron since 1864, divided into (1) rails and (2) all other rolled iron:

Years.	Iron rails. Net tons.	Other rolled iron. Net tons.	Total. Net tons.
1864.....	335,369	536,958	872,327
1865.....	356,292	500,048	856,340
1866.....	430,778	595,311	1,026,089
1867.....	459,558	579,838	1,039,396
1868.....	499,489	594,286	1,097,775
1869.....	583,936	642,420	1,226,356
1870.....	588,000	705,000	1,291,000
1871.....	737,483	710,000	1,447,483
1872.....	905,930	941,992	1,847,922
1873.....	761,062	1,076,368	1,837,430
1874.....	584,469	1,110,147	1,694,616
1875.....	501,649	1,097,867	1,599,516
1876.....	467,168	1,042,101	1,509,269
1877.....	332,540	1,144,219	1,476,759

PRODUCTION OF IRON AND STEEL RAILS IN 1877.

The production of iron and steel rails of all sizes in 1877 was much less than in 1876. The total production in 1877 was 764,709 net tons, against 879,629 tons in 1876, 792,512 tons in 1875, 729,413 tons in 1874, 890,077 tons in 1873, 1,000,000 tons in 1872, and 775,733 tons in 1871. Of the total production in 1877, 332,540 net tons were iron rails, against 467,168 tons in 1876; and 432,169 net tons were Bessemer steel rails, against 412,461 tons in 1876. These figures show a decrease in the production of iron

rails of 134,628 net tons, and an increase in the production of Bessemer steel rails of 19,708 net tons. The total production of rails in 1877 was 114,920 net tons less than in 1876—a decline of 13 per cent. For the first time the production of Bessemer steel rails overtook that of iron rails in 1877. The production of street rails in late years is included in the aggregates of iron and steel rails, as follows: 1873, 9,430 net tons; 1874, 6,739 tons, of which 1,000 tons were Bessemer steel; 1875, 16,340 tons, of which 2,308 tons were Bessemer steel; 1876, 13,086 tons, of which 3,563 tons were Bessemer steel; 1877, 7,015 tons, of which 1,269 tons were Bessemer steel.

Years.	Net tons.	Years.	Net tons.	Years.	Net tons.	Years.	Net tons.
1849....	24,318	1857....	161,918	1865....	356,292	1873....	890,077
1850....	44,083	1858....	163,712	1866....	430,778	1874....	729,413
1851....	50,603	1859....	195,454	1867....	462,108	1875....	792,512
1852....	62,478	1860....	205,038	1868....	506,714	1876....	879,629
1853....	67,864	1861....	189,818	1869....	593,586	1877....	764,709
1854....	108,016	1862....	213,912	1870....	620,000		
1855....	138,674	1863....	275,768	1871....	775,733		
1856....	180,018	1864....	335,369	1872....	1,000,000		

The following table shows in detail the production of iron and steel rails in this country since the beginning of the manufacture of Bessemer steel rails:

Years.	Iron rails all kinds. Net tons.	Bessemer steel rails. Net tons.	Total. Net tons.
1867	459,558	2,550	462,108
1868	499,489	7,225	506,714
1869	583,936	9,650	593,586
1870	586,000	34,000	620,000
1871	737,483	38,256	775,733
1872	905,930	94,070	1,000,000
1873	761,062	129,015	890,077
1874	584,469	144,944	729,413
1875	501,649	290,863	792,512
1876	467,168	412,461	879,629
1877	332,540	432,169	764,709

The following table shows the production in net tons of rails of all kinds in the United States from 1871 to 1877, classified by States, together with the percentage made in each State in 1877:

States in the order of their rail production in 1877.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	Percentage made in each State in 1877.
Pennsylvania.....	335,604	449,113	329,522	259,268	255,136	353,925	347,968	45.51
Illinois.....	91,178	107,496	136,102	125,103	188,248	181,490	120,762	15.78
Ohio.....	75,782	138,165	130,326	82,561	91,775	100,799	62,270	10.76
Indiana.....	12,776	23,693	26,579	20,617	23,309	29,383	34,676	4.56
New York.....	67,022	86,518	59,764	46,979	82,960	57,306	34,094	4.46
Missouri.....	8,200	15,500	14,020	24,017	17,396	20,903	31,989	4.09
Wisconsin.....	28,774	37,284	39,495	29,680	28,403	21,280	21,439	2.80
Kansas.....				2,000	5,000	14,707	16,016	2.10
Kentucky.....	6,000	7,480	11,386	6,068	5,261	1,524	12,100	1.54
Tennessee.....		14,620	13,973	13,693	12,250	21,394	11,373	1.49
Georgia.....	7,840	6,930	8,275	8,061	6,500	9,000	10,031	1.31
Wyoming Territory.....					7,000	12,320	10,007	1.31
Massachusetts.....	23,864	29,242	34,034	24,765	18,391	9,061	9,640	1.26
Maryland.....	44,941	30,533	42,356	49,008	30,619	18,844	8,531	1.19
California.....			475	7,016	9,073	8,639	5,750	.76
Vermont.....			6,082	10,400	6,204	9,183	3,899	.61
Maine.....	13,383	14,058	16,500	14,650	4,050	7,500	2,626	
West Virginia.....	5,000	20,100	4,000	522	406	538	1,756	
New Jersey.....	6,700	9,185	13,749	3,537	941	243		
Michigan.....	14,000	9,883	4,433	2,448		1,600		
Total.....	775,733	1,000,000	890,077	729,413	792,512	679,629	764,709	100 00

PRODUCTION OF BESSEMER STEEL IN 1877.

The quantity of pig iron and spiegeleisen converted by the Bessemer process in the United States in 1877 was 562,227 net tons, against 539,474 tons in 1876, 395,956 tons in 1875, and 204,352 tons in 1874. Of spiegeleisen alone there were used 48,229 net tons in 1877, against 45,980 tons in 1876, and 32,245 tons in 1875. The number of net tons of Bessemer steel ingots produced in 1877 was 560,587 against 525,996 tons in 1876, 375,517 tons in 1875, and 191,933 tons in 1874. The number of net tons Bessemer steel rails produced in 1877 was 432,169, against 412,461 tons in 1876, 290,863 tons in 1875, and 144,944 tons in 1874. In the eleven years during which the Bessemer steel industry of this country has had an active existence there has been produced a total of 1,595,197 net tons of steel rails. The number of Bessemer converters in use during the whole or a part of the year 1877 was 22, representing all the Bessemer steel establishments of the country.

Full details of the Bessemer steel industry in this country for 1874, 1875, 1876, and 1877 are as follows :

Details of production.	1874. Net tons.	1875. Net tons.	1876. Net tons.	1877. Net tons.
Pig iron and spiegeleisen converted....	204,353	395,956	539,474	562,227
Ingots produced	191,933	375,517	525,996	560,587
Rails produced.....	144,944	290,863	412,461	432,169

As we have frequently explained, the Bessemer steel produced in this country, which is not rolled into rails, is used in various forms as a substitute for wrought iron or for other kinds of steel. This use of Bessemer steel is rapidly increasing. The production of Bessemer steel rails in this country since 1867, when they were first made upon orders, has been as follows :

Years.	Net tons.	Years.	Net tons.	Years.	Net tons.
1867.....	2,550	1871.....	38,250	1875.....	290,863
1868.....	7,225	1872.....	94,070	1876.....	412,461
1869.....	9,650	1873.....	129,015	1877.....	432,169
1870.....	34,009	1874.....	144,944	Total.....	1,595,197

The number of net tons of spiegeleisen produced in this country in 1877 was 8,845, against 6,616 tons in 1876, and 7,832 tons in 1875. New Jersey, Pennsylvania, Georgia, and Alabama made spiegeleisen in 1877. The Bethlehem Iron Company, at Bethlehem, Pennsylvania, commenced to make spiegeleisen in 1875, and in 1877, at a small furnace built expressly for the purpose, made more than half that it used. The North Jersey Iron Company, at Port Oram, made several thousand tons of spiegeleisen in 1877, and the New Jersey Zinc Company continued its manufacture from preceding years. Small quantities was made at Woodstock, Alabama, and at Cartersville, Georgia. The Cambria Iron Company now manufactures at Johnstown, Pennsylvania, its own spiegeleisen, from mixed foreign and domestic ores, using one furnace, which produces nearly 600 tons a month. The use of ferro-manganese in the Bessemer process is not now increasing in this country.

Of the eleven Bessemer steel establishments in the United States, the last one erected, the Vulcan, at St. Louis, was completed in 1876. No addition to the number has since been projected or seriously contem-

plated. The lesson has been learned at very great cost that the country now possesses sufficient facilities for the manufacture of all the Bessemer steel it will need for many years to come.

PRODUCTION OF STEEL OTHER THAN BESSEMER IN 1877.

Forty-one establishments made crucible, open-hearth, blister, and puddled steel in 1877, located in New Hampshire, Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Ohio, Kentucky, and Tennessee. There are also steel works in Rhode Island, Georgia, and Illinois, but they were not in operation in 1877.

The total production in 1877, of all the kinds of steel named above, was 77,385 net tons, against 71,178 tons in 1876, 61,058 tons in 1875, and 49,681 tons in 1874. Of the product of 1877, 40,430 tons were crucible steel, 25,031 tons were open-hearth steel, and 11,924 tons were puddled and blister steel. The table below shows the productions in the several years :

Kinds of steel.	1872.	1873.	1874.	1875.	1876.	1877.
Crucible cast steel Net tons	29,260	34,786	36,328	39,401	39,382	40,430
Open-hearth steel "	3,000	3,500	7,000	9,050	21,490	25,031
All other steel except Bessemer "	7,740	13,714	6,353	12,607	10,306	11,294
Bessemer steel ingots "	120,108	170,652	191,933	375,517	525,996	560,587
Totals	160,108	222,652	241,614	436,575	597,174	637,342

If protection had not enabled us to make this large quantity of steel at home, and if it had been possible for us to purchase this quantity abroad, our debt to Europe would have been increased at least \$175,000,000, and no class of our countrymen would have been benefited except the importers. The steel manufacture of this country is eminently the child of the protective policy, and its healthy growth and beneficent influence illustrate most signally the wisdom of that policy.

ROLLING MILLS THAT ROLL IRON AND BESSEMER STEEL.

At the close of 1877 there were, in twenty-five States and the Territory of Wyoming, 338 rolling mills, containing 4,531 single puddling furnaces, each double furnace being counted as two single furnaces. There were also 51 single puddling furnaces connected with steel work and forges, the total number of puddling furnace in the United States in 1877, being 4,582. Of the whole number of mills 253 were in operation during the whole or a part of the year.

The rolling mill capacity of the country, like its blast furnace capacity, is double the production of 1877.

TABLE EXHIBITING THE AMOUNT OF ROLLED STEEL AND IRON PRODUCED IN OHIO, AS REPORTED BY TOWNSHIP ASSESSORS TO THE COUNTY AUDITORS IN MAY, 1878.

Counties.	Bar and nail-rod iron.	Nails.	Hoop-iron.	Sheet-iron.	Boiler-iron.	Spikes and rail-road chairs.	Railroad rails—iron.	Railroad rails—steel.	All other steel.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Belmont	6,210	9,526	.....	1,466	.....	.....	.....	.....	.....
Columbiana .....	.....	.....	.....	2	186	.....	.....	.....	3
Cuyahoga	17,350	.....	.....	2,463	3,916	.....	17,560	42,825	35,500
Hamilton	3,720	.....	.....	.....	.....	.....	.....	.....	179
Jefferson .....	.....	6,420	.....	.....	.....	.....	.....	.....	.....
Lawrence .....	.....	7,500	5,000	.....	.....	.....	300	.....	.....
Mahoning	24,697	.....	9,000	766	.....	384	.....	.....	10
Meigs	1,750	.....	10	.....	.....	.....	.....	.....	.....
Scioto	2,560	193	404	879	1,789	58	.....	.....	2,010
Trumbull	8,548	2,268	.....	5,097	40	.....	.....	.....	.....
Totals...	65,125	25,967	14,414	11,073	5,929	442	17,860	42,825	37,702

* Other counties not reported.

THE BEREA SANDSTONE OF OHIO.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY PROF. EDWARD ORTON,
Of the Ohio State University.

The State of Ohio is, on the whole, well supplied with building stones. There are considerable areas in which no stone is available on account of the heavy beds of drift with which the face of the country is covered, but three-fourths of the State may be said to have adequate local supplies. A wide range of quality is shown in these supplies. The best Ohio building stone is not surpassed by any stone of the same class in the markets of this country. The various products of our stone-quarries already make an aggregate of millions of dollars annually, and the business is rapidly increasing.

Our building stones are found at many separate geological horizons. With the geological scale and map of the State, the reader of these pages is supposed to be familiar. It is enough to say that the State is divided from north to south into two unequal divisions, the smaller of which makes up western Ohio. This division is underlain by the limestones and shales of Lower Silurian, Upper Silurian, and Devonian age, and wherever these rocks yield surface exposures, a reliable supply of building stone is at hand. Some of the limestones of western Ohio have a very high degree of excellence. The quarries of Dayton, Columbus, Greenfield, Springfield, and Cincinnati, represent the principal divisions of this series.

The eastern division of the State is underlain with Devonian shales and with the sandstones, conglomerates, shales, and limestones of the great Carboniferous system. This division is much less encumbered with drift deposits than the other, and its composition is much more varied, the several elements named above succeeding each other in every extended section with rapid alternations. As a consequence, there are very many horizons from which good building stone is derived. As a rule, the products of the quarries of eastern Ohio are silicious, being either freestones, sandstones, or conglomerates, but at a few points the limestones of the Carboniferous system are successfully worked.

There is, however, one horizon in this general division that has an exceptional interest from both an economical and a geological point of view. It is the stratum named at the head of this article, viz., the *Berea sandstone*. As a source of building material it is beyond comparison the most valuable formation not only of eastern Ohio, but of the whole State as well. As to geological interest, it is enough to say that it can be followed as a continuous stratum through twenty-one counties in a line of outcrop of more than four hundred miles in length, and that it not only furnishes a common geological base for all portions of the State which it traverses, but that it also serves to connect the series of Pennsylvania on the one side, and that of Kentucky on the other, with our own, in such a way as to render important correlations at once definite and easy.

The details of the structure and character of this important stratum are furnished to a considerable extent in the several reports of the Ohio Geological Survey, in which it is treated under a variety of names. In the brief review which I propose to make, I shall not consider, except incidentally, the splendid development which it shows in numerous localities, and the great commercial value which it has already attained at some of these points, but I shall rather treat the formation as a whole, following its line of outcrop and its varied development throughout the State, and thus illustrating its present and prospective value to the entire commonwealth more clearly than any discussion of exceptional localities could do.

I gather the facts which I use from the several geologists that have recently worked upon this part of our series, viz., from Newberry and Reed, in Northern Ohio; from N. H. Winchell, in the northern central portion of the State, and from Andrews, in Southern Ohio. I shall also use my own observations, made in various portions of the State. The connections here asserted between the northern and southern portions of the field, I have worked out during the last year, and for the statements relating to them, I must assume the entire responsibility.

The formation derives its name from the village of Berea, Cuyahoga county, where it attains its highest excellence, and where it has been very extensively worked. Its place in the geological scale is near the base of the important series of shales, sandstones, and conglomerates, known as the *Waverly Group*, the Sub-Carboniferous age of which is now generally accepted. In thickness it varies from six to sixty feet, the smallest measures being found in Central and Southern Ohio, and the largest in Northern Ohio. From Franklin county northward, it seldom falls below fifty feet, while in Southern Ohio, twenty-five feet would exceed the average measure.

This considerable thickness, combined with the facts that the stratum everywhere consists of firm sandstone layers, and that it is immediately overlain and underlain by beds of easily eroded shales, renders it easy to follow its outcrop from county to county throughout the State. The overlying and underlying shales just referred to are also quite definitely characterized, and thus serve to assist in the identification of the stratum which they enclose. The upper bed is black, and the lower one is blue, or sometimes red.

The general section of the Waverly Group and the underlying Devonian Shales of Northern Ohio is thus given by Newberry (Geology of Ohio, Vol. II, page 87):

Cuyahoga Shale, 250 ft.	} Waverly Group, Sub-Carboniferous.
Berea Sandstone, 60 ft.	
Bedford Shale, 75 ft.	
Cleveland Shale, 60 ft.	
Erie Shale	} Devonian Shales.
Huron Shale	

The Huron Shale of the Devonian is a black shale, as is also the Cleveland Shale of the Waverly Group. These are separated in Cuyahoga county by a mass of green and blue shale, called the Erie Shale, which is not less than 150 feet thick at Cleveland. It shrinks rapidly in volume, however, as it is followed to the westward, and at the mouth of Vermillion River, Dr. Newberry reports it as disappearing entirely—thus letting the Cleveland Shale down upon the Huron. If this be the true interpretation of the facts, it would seem that the Great Black Shale, which stretches from the Lake Shore to the Ohio River, is the blended product of these three epochs, viz.: the Huron proper, the Erie, and the Cleveland. In confirmation of this view, it may be stated that the uppermost beds of the Great Black Shale, in Franklin county, contain the fossils of the Cleveland Shale; and also that there are beds of green and blue shale interstratified with the black, in the upper portion of the series, where the place of the Erie Shale should be.

A representative section from Southern Ohio can be taken from Pike county, where the whole group obtained its name. It is as follows (See Geology of Ohio, Vol. II, page 618):

Waverly Group, Sub-Carboniferous	{	Upper Waverly	{ Sandstone, 50 ft.
			{ Shale, 300 ft.
			{ Buena Vista Stone.
		Waverly Black Shale, 20 ft.	
Devonian Shale	{	Waverly Quarries, 50 ft.	
		Waverly Shale, 75 ft.	
		Huron, or	
		Great Black Shale, 300 ft.	

This section, as far as the Upper Waverly, can be followed, with its

leading elements unchanged, into Central Ohio, though, as is to be expected, the measures of these elements are constantly varying. But the northern section of the Waverly, through at least the lowermost two hundred and fifty feet of strata, can be followed to the same district. What, then, are the equivalent terms of these separate series?

It will be seen that in Cuyahoga county and eastward, a bed of black shale, the Cleveland Shale of Newberry, was found at least one hundred and fifty feet above the surface of the Huron Shale, bounded above and below by blue shales. In Southern Ohio, also, Professor Andrews found a bed of black shale—the Waverly Black Shale—about one hundred and forty feet from the surface of the Huron, so called, or Great Black Shale, and like the Cleveland of the north, intercalated between beds of blue shale and sandstone. The identification of these two beds as one stratum was a natural one to make, and though at first asserted only as probable by Dr. Newberry, its truth seems gradually to have been accepted and has been made the basis of all subsequent attempts to correlate the Waverly series of the different sections of the State. It seems to have been first questioned, however, by its author, who has lately denied that any southern continuation of the Cleveland Shale could be demonstrated. The true order proves, indeed, to be quite different from this. The Berea Sandstone turns out to be the stratum from which the whole formation was named, viz: the Lower Waverly Quarries of Pike county. To make the correlation of the series more exact, one element must be added to Dr. Newberry's section of the group in Northern Ohio. The *Berea Shale* needs to be interpolated between the Berea Sandstone and the Cuyahoga Shale. The presence of a bed of bituminous shale, twenty or thirty feet in thickness, at the base of the Cuyahoga Shale, is shown in the several reports on the northern counties, but it is not there separated from the overlying beds. Its fossils are shown to be in large part, identical with those of the Waverly Black Shale of Southern Ohio. The northern and southern sections of the group are, then, correlated as follows:

NORTHERN OHIO.

SOUTHERN OHIO.

Cuyahoga Shale, Upper Waverly, 250 feet ...	$\left\{ \begin{array}{l} \text{Sandstone.} \\ \text{Shale.} \\ \text{Buena Vista Stone,} \end{array} \right\}$	350 feet.
(Berea Shale), 20 feet	Waverly Black Shale, 20 feet.	
Berea Grit, 60 feet.....	Waverly Quarry Stone, 50 feet.	
Bedford Shale, 75 feet.....	Waverly Shale, 75 feet.	
Cleveland Shale	Upper beds of Great Black Shale ?	

The identification of the upper four members of the groups is certain. As to the Cleveland Shale, the question is still open.

Dr. Newberry identified the Sunbury and Harlem Quarries of Delaware

county as Berea Grit. (see Geology of Ohio, Vol. II, page 97.) At least the red shale below the quarry stone, he recognized as the Bedford Shale, but he did not at that time question the identification previously announced of the Waverly Black Shale and the Cleveland Shale. When, therefore, it was found that the Sunbury Stone was in the horizon of the Lower Waverly Quarry Courses, its reference to the Berea was rejected, the latter stratum being still regarded as the equivalent of the Buena Vista Stone. (See Geology of Franklin county, Vol. III, page 642.)

Professor N. H. Winchell in his reports on Crawford, Morrow, and Delaware counties, (Geology of Ohio, Vol. 2), made the true reference of their sandstone quarries to the Berea Grit, but he probably relied in his determinations more on lithological characters than on the general section—for he seems to be in error in regard to the stratigraphical order—recognizing the Cleveland, Erie, and Huron Shales as distinct and definite elements, whereas they are certainly blended in one formation here, if they are all present.

The Berea Sandstone is the first building stone to be reached, after leaving the limestone outcrops already described, in ascending the geological scale of the State. There is always a tract from ten to twenty miles broad to the west or north of it that is entirely destitute of stone—the tract, namely, that constitutes the outcrop of the shales that lie immediately below it in the series. It is upon this fact, in part, that its great value depends. Such a stratum would be serviceable in any part of our geological column, but there is no other portion of our series where a range of building stone could be as useful as at this point.

There is always stone at this horizon, sometimes more and sometimes less—sometimes so excellent as to become the standard for comparison throughout the country, and sometimes so irregular and ungainly as to be worthless for all but the very coarsest uses; but in all but one of the twenty-one counties traversed by it, there are valuable quarries already opened in it.

Its course and development throughout the State will now be briefly described.

It enters the State from Pennsylvania in Williamsfield, the south-eastern township of Ashtabula county. Its outcrop passes southward from there into Kinsman and Vernon townships of Trumbull county, where it yields an abundance of massive and strong building stone. It is worked here only for local supply. It passes northward from Vernon through Gustavus township into Wayne and Cherry Valley townships of Ashtabula county, and thence again southward through Colebrook township, through Greene and Mecca townships, and into Bazetta township of Trumbull county. In Mecca township, it is the Berea Grit which makes

the chief oil-bearing rock, that is invested with increasing economical interest and value. It may be remarked, in passing, that the useful offices of this stratum are by no means confined to supplying the best building stone and grindstone grit of the State, but it is, by way of excellence, the oil-bearing and also the salt-bearing rock of our geological series. It seems to hold a similar place in Michigan and West Virginia, as well.

It can be further traced through Bristol, Champion, Southington, Farmington, and Mesopotamia townships of the same county. In the first three, as in the adjoining townships of Mecca and Greene, the drift deposits are so deep as to preclude the possibility of quarries, but in the two last named townships it is finely exposed, and yields a grindstone grit of excellent quality. The stone can be raised in inexhaustible quantity, and of excellent character, throughout this district.

Passing thence northward again, its outcrop traverses Windsor, Hartsgrove, and Trumbull townships of Ashtabula county. In each of these townships there are quarries now worked for local supply, which are capable of meeting any demand. In Footville, Trumbull township, scythe stones were once manufactured from the Berea Grit, as there exposed.

The stratum is easily followed westward through Geauga and Lake counties. It passes through Thompson and Chardon townships of the former, and through Leroy, Concord, and Kirtland, of the latter county. Numerous quarries are opened all along the line, and though none of them has been worked extensively enough to get the full advantage of the stone, it is safe to say that the stratum has unlimited capacities of service in this district.

The facts relating to the stratum in these counties are derived from Prof. M. C. Read's reports.

It enters Cuyahoga county in Mayfield township, where it constitutes the east boundary of the valley of Chagrin River. It holds the same relation to the valley in Orange township. Crossing the river at Chagrin Falls (the falls being caused by the occurrence of this stratum), it traverses the two townships last named in an outcrop parallel to that upon the east side of the river.

The outcrop thence sweeps around through Euclid, East Cleveland, and Newburgh townships until the valley of the Cuyahoga River is reached. It ascends this valley through Independence and Bedford townships, the whole line of outcrop giving possibility of quarries of great excellence. It passes into Summit county and crosses Northfield township and Boston as far as Peninsula. Here extensive and well-

known quarries are worked, which send annually a large quantity of excellent stone into the market. Returning on the west bank of the river the stratum passes through Brecksville township, Cuyahoga county, and from thence again through Independence, where it forms bold bluffs, in which one of the most extensive and valuable quarries of the formation is wrought. More than 5,000 tons of grindstones have been quarried here in a single year, and scarcely any portion of this great stratum is in higher repute as a building stone.

The formation is easily traced through Parma township, though mainly covered by the Drift, to Middleburg township, in which the village of Berea is situated. The annual products of the great quarries that are worked at this point exceed \$500,000 in value. The quality of the stone for building, for flagging, and for grindstone grit, is unsurpassed in the country. The same quality and quantity of the stone are accessible in Olmsted township, where, also, it is extensively worked.

The stratum enters Lorain county in Ridgeville township, but its tortuous line of outcrop along the valleys of Black River and its tributaries it is not necessary here to trace. The stone is exposed in more than half the townships of the county, while at Amherst and Brownhelm, quarries are found which vie in extent and excellence with the best of the formation. They have, indeed, some points of superiority over even the Berea stone, their shades of color being preferred by many. At Elyria, also, there is a great showing of the formation, but it has not been found to exhibit its best qualities at this point. The annual production of the Berea grit in Lorain county must compare well with that of Cuyahoga county.

From Brownhelm township the formation passes into Erie county, its line of outcrop passing through Vermilion, Florence, and Berlin townships. In the last named township it constitutes the bold headland of Berlin Heights. Extensive quarries are opened in this exposure.

From Erie county it passes into Huron county, traversing the townships of Townsend, Norwalk, Bronson, Peru, Greenfield, and New Haven. It no longer shows the great excellence which marks it at Berea and Amherst. It is also generally reduced in quantity as well as in character. Still it is a great reliance for local supplies, and quarries are opened in it in every one of the townships named above but one. It has suffered great disturbance on many of its outcrops from the great glacier which passed out of Lake Erie to the southward over this region.

From Huron county the Berea sandstone passes in a direction west of south through Plymouth township, Richland county, where several quarries of rather inferior quality are opened, into Auburn township,

Crawford county. It can be traced very distinctly southward through this county, quarries being opened in it in Vernon, Jackson, and Polk townships. It attains a thickness of thirty-five to forty feet, and yields a large supply of valuable building stone of fair quality.

It follows nearly a north and south line in traversing Morrow county. It is opened for local use in Washington, Gilead, and Lincoln townships, and must cross Peru and Bennington townships, though no report is given of it here.

It traverses Kingston, Berkshire, and Harlem townships of Delaware county, quite extensive quarries being opened in the two last named townships. The Sunbury quarries have been a center of distribution for a number of years, and can yield an indefinite amount of excellent stone. The line crosses three townships of Franklin county, viz., Blendon, Mifflin, and Jefferson, but in the latter the stone is quite largely worked. From the Black Lick quarries, eight miles east of Columbus, the stone used in the building of the State Asylum for the Blind was taken, and also for a number of other prominent buildings in Columbus. There are not less than fifty feet in the Black Lick section, but only a few courses are entirely trustworthy. The line sways to the eastward from the last named exposure, passing through Violet and Bloom townships of Fairfield county.

The stratum shows less value in Fairfield county than at almost any other point along its long line. It is reduced in thickness and irregular in bedding. It happens, however, that another series of beds is found here which is very well developed in the southern part of the State, viz., those composing the Buena Vista stone, which *overlies* the Waverly black shale. To this horizon the excellent quarries of Lithopolis belong.

The Berea sandstone enters Pickaway county in Madison township, and passes through Walnut and Washington townships, but its development in this county has not been reported upon. Its presence, however, is assured by the identical sections found both north and south of this area. It is very largely developed in Ross county, its western margin being found in outliers of large extent on the west side of the Scioto River. It occupies the highlands of Deerfield, Union, Concord, Buckskin, and Paint townships of Ross county, and similarly situated lands in Marshall and Brush Creek townships, Highland county, and passes through Franklin, Meigs, Jefferson, and Greene townships of Adams county to the Ohio River, which it overhangs in bold highlands, between the mouth of Brush Creek and the village of Rockville. But no adequate idea of its extent and value through this territory can be given by such a sketch. Its western boundary has been indicated, but here it lies 600

feet above the deeper valleys, and consequently an immense amount of the stone will be shown before the slight easterly dip of the strata carries this formation below drainage. The Scioto Valley and all its leading tributaries are walled with it for many miles. Pike county, in particular, holds enough of the Berea sandstone to meet all the demands of the State for centuries. The stone regains in Ross county and southward its good character to a great degree. At Waverly and in its vicinity the stone has been longest worked. The distribution has been thus far mainly effected by the Scioto Valley Canal, but railroads are now giving it the means of wider circulation. It cannot be claimed, however, that this stratum attains, anywhere in Southern Ohio, all of the excellent qualities which have given to the northern quarries so high a reputation. The products of the southern quarries are nowhere as uniform as are those of the north, but individual quarries and courses are scarcely surpassed in quality. The formation in Southern Ohio yields but infrequently a good grindstone-grit.

A variegated stone of great beauty and excellence is furnished by hill quarries on the west side of Pike county. This variety will certainly be sought for if it is ever rendered accessible. Not only is the Berea sandstone of Southern Ohio at some disadvantage when compared with the best stone of Northern Ohio, but it is overshadowed to some extent by the great building-stone horizon just above it in the geological scale, viz., the Buena Vista stone, or city ledge, which is so just a favorite in all of the towns on the Ohio River. It was this stratum, as has been already said, that the Berea of the north was made to represent, under the erroneous identification of the Cleveland and Waverly black shales.

Enough has now been said to justify the claim made for the Berea sandstone at the beginning of this article, viz., that it is one of the most interesting and important members of our whole geological series. Its economical interest is shown in the fact that it is already yielding annually products amounting to several millions of dollars, the building stones and grindstones derived from it being the standard of excellence for the eastern United States, while as a reservoir of petroleum and salt water, it plays a very important part in the production of two other great staples. Its geological interest is found in the fact that it gives the means of correlating with ease and certainty the various elements of that much disputed series, the Waverly group.

OHIO STATE UNIVERSITY, April 21, 1879.

MANUFACTURING STATISTICS.

TABLE SHOWING THE AMOUNT OF CASTINGS MADE IN OHIO, AS REPORTED BY THE ASSESSORS TO THE COUNTY AUDITORS IN MAY, 1878.

Counties.*	Stoves and hol- low-ware.	Car wheels.	Plows.	All other cast- ings.	Wheat drills and corn planters.
	Tons.	Tons.	Number.	Tons.	Number.
Belmont	1,125	.....	.....	315	.....
Butler	150	.....	5,800	.....	.....
Carroll .....	.....	.....	100	.....	.....
Champaign	100	.....	3,000	100	500
Clarke .....	.....	.....	35	.....	.....
Columbiana	1,200	.....	.....	400	.....
Cuyahoga	4,400	2,750	200	8,054	.....
Delaware .....	.....	.....	25	.....	.....
Fairfield .....	.....	.....	4,600	.....	.....
Gallia .....	.....	.....	.....	100	.....
Hamilton	10,000	2,200	1,143	7,318	.....
Highland .....	.....	.....	.....	226	.....
Holmes	40	.....	60	.....	.....
Huron .....	.....	.....	450	300	.....
Jefferson	452	.....	.....	450	.....
Lake	200	.....	25	334	.....
Lawrence	550	.....	.....	.....	.....
Lorain	50	.....	.....	.....	.....
Lucas .....	.....	450	1,500	1,280	.....
Mahoning .....	.....	.....	.....	349	.....
Meigs	4	20	.....	200	.....
Miami .....	.....	.....	450	185	3,000
Montgomery .....	.....	4,800	4,900	2,600	.....
Morgan .....	.....	.....	10,000	.....	.....
Perry	4	.....	20	18	.....
Pickaway	15	.....	75	100	.....
Portage .....	.....	.....	.....	1,241	.....
Richland .....	.....	.....	.....	4,100	.....
Sandusky .....	.....	.....	600	.....	.....
Scioto	300	.....	.....	400	.....
Seneca	150	.....	.....	200	.....
Stark .....	.....	.....	6,050	250	.....
Summit	1,079	.....	.....	265	.....
Trumbull	130	20	145	50	.....
Tuscarawas	2	.....	290	.....	.....
Washington	300	.....	.....	100	.....
Wayne .....	.....	.....	15	10	.....
Totals	20,251	10,240	39,483	28,945	3,500

* Other counties not reported.

TABLE SHOWING THE NUMBER OF LOCOMOTIVES, STEAM ENGINES, STEAM BOILERS, SUGAR MILLS, REAPING, MOWING, AND THRESHING MACHINES, AND PORTABLE SAW-MILLS MADE AND IN USE IN OHIO, AS REPORTED BY THE ASSESSORS TO THE COUNTY AUDITORS IN MAY, 1878.

Counties.*	Locomotives	Steam engines.	Steam boilers.	Sugar mills.	Portable saw-mills.		Reaping machines.	Mowing machines.	Threshing machines.	Sowing machines.
	No. built.	No. made.	No. made.	No. made.	No. made.	No. in use.	No. made.	No. made.	No. made.	No. made.
Athens					1	1				
Belmont		■			1		50	■	108	
Brown						2				
Butler		34	34		7	2			27	
Carroll						■				
Clarke		203	200			2	16,600	8,500	143	
Columbiana		42	24		7					
Conhocton						1				
Cuyahoga	2	47	168							46,800
Delaware						12				
Erie		10			1	2	50	■		
Fairfield						21				
Fulton						2				
Gallia		2		20	1					
Geauga						4				
Hamilton	4	201	43		22				■	
Highland						9				
Holmes						6				
Huron	■	6								
Jackson						1				
Jefferson		1				5				
Knox		125			50	2				
Lake			15							
Lorain						5				
Lucas		53						50		
Madison						1				
Marion		12	12		4	13				
Meigs			1	1		4				
Miami		■			2	9			91	
Monroe						16				
Morgan									6	
Morrow						11				
Perry						2				
Pickaway		1			2	4				
Portage						5				
Richland		227			50	■			522	
Sandusky		45	45			1	800	1,000		
Scioto		4	16							
Stark		218	110			1	5,201		1,714	
Summit			73			4	6,900	2,000		
Trumbull		5	65		1					
Tuscarawas						1	300	300		
Van Wert						19				
Washington						1				
Wayne							600	100		
Wood					7	7				
Totals....	9	1222	936	■	162	194	30,491	13,101	2,725	46,800

* Other counties not reported

TABLE SHOWING THE NUMBER AND VALUE OF STEAMBOATS, SAIL VESSELS, FLAT BOATS, CANAL BOATS, AND BARGES BUILT IN OHIO, AS REPORTED BY TOWNSHIP ASSESSORS TO COUNTY AUDITORS IN MAY, 1878.

Counties.	Steamboats, barges, and flat boats built on the Ohio river and its tributaries.						Boats and sail vessels built upon Lake Erie and its tributaries.				Canals.	
	Steamboats.		Flat boats.		Barges.		Steamboats.		Sail vessels.		Canal boats.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
Adams	2	\$4,000	4	\$2,300	2	\$750	.....	.....	.....	.....	.....	.....
Athens .....	.....	.....	.....	.....	4	2,000	.....	.....	.....	.....	.....	.....
Brown .....	.....	.....	13	7,000	1	500	.....	.....	.....	.....	.....	.....
Columbiana ..	1	8,000	.....	.....	1	500	.....	.....	.....	.....	.....	.....
Coshocton .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	*
Cuyahoga .....	.....	.....	.....	.....	.....	.....	3	\$290,000	4	\$4,800	.....	.....
Erie .....	.....	.....	.....	.....	.....	.....	2	9,500	1	15,000	.....	.....
Hamilton	16	399,000	.....	.....	4	1,400	.....	.....	.....	.....	.....	.....
Jefferson .....	.....	.....	2	700	.....	.....	.....	.....	.....	.....	.....	.....
Lake .....	.....	.....	.....	.....	.....	.....	1	2,500	.....	.....	.....	.....
Lawrence .....	.....	.....	.....	.....	4	3,000	.....	.....	.....	.....	.....	.....
Lorain .....	.....	.....	.....	.....	.....	.....	.....	.....	1	6,000	.....	.....
Meigs .....	.....	.....	5	2,250	2	550	.....	.....	.....	.....	.....	.....
Monroe .....	.....	.....	3	1,800	.....	.....	.....	.....	.....	.....	.....	.....
Washington ..	1	1,000	.....	.....	2	300	.....	.....	.....	.....	.....	.....
† Totals	20	\$412,000	27	\$14,050	20	\$9,000	6	\$302,000	6	\$25,800	1	.....

* Value not reported. † Other counties not reported.

TABLE SHOWING THE AMOUNT OF LIME AND WATER CEMENT PRODUCED, AND STONEWARE MANUFACTURED IN OHIO AS REPORTED BY TOWNSHIP ASSESSORS TO THE COUNTY AUDITORS IN MAY, 1878.

Counties.	Lime.	Water cement.	Stoneware.
	Number barrels made.	Number barrels made.	Number gallons made.
Adams			120,000
Ashtabula	4,000		
Belmont	200	4,500	
Clarke	102,500		
Columbiana		17,620	125,000
Cuyahoga	115,000		
Darke	600		
Delaware	600		
Erie	30,000		
Greene	114,000		
Hamilton	5,290		
Hancock	4,000		
Highland	15,000		
Hocking			42,000
Jackson	100		
Lawrence	40		
Logan	3,300		
Mahoning	970		72,000
Marion	10,000		
Mercer	2,100		
Miami	21,633		
Montgomery	320		
Morgan			35,000
Ottawa	156,335	3,200	
Perry	766		914,200
Pickaway	1,500		
Portage	800		658,375
Preble	15,333		
Putnam	500		
Sandusky	85,000		
Seneca	4,300		
Stark	8,882		95,250
Summit *	500		3,878,500
Tuscarawas	5,000		
Van Wert	3,700		
Vinton			42,000
Wayne	500		
Wood	4,266		
Totals	717,035	25,320	5,9

* Summit county also reports 1,000,000 fire-brick, 4,000,000 stone pipes for smokers, and 40,000 gross of matches.

BUILDING STATISTICS.

COUNTY BUILDINGS.

TABLE SHOWING THE NUMBER AND VALUE OF COUNTY BUILDINGS ERECTED WITHIN THE YEAR, TOGETHER WITH THE TOTAL NUMBER NOW EXISTING, AS REPORTED BY COUNTY AUDITORS.

Counties.	County buildings erected within the year ending June 30, 1878.		All county buildings now existing.	
	Number.	Value.	Number.	Value.
Adams			3	\$40,000
Allen			3	83,000
Ashland			3	40,000
Ashtabula	1	\$11,000	6	56,000
Athens			2	20,000
Auglaize			3	44,000
Belmont			7	104,500
Brown			4	80,000
Butler	1	1,500	5	50,000
Carroll	1	3,000	5	15,000
Champaign			5	40,000
Clarke	1	20,000	6	100,000
Clermont			4	25,000
Clinton			3	100,000
Columbiana			3	180,000
Coshocton			3	115,000
Crawford || .....				
Cuyahoga			2	600,000
Darke			3	190,000
Defiance			7	125,000
Delaware			2	90,000
Erie			4	180,000
Fairfield			4	171,000
Fayette			4	*
Franklin			4	90,000
Fulton			4	80,000
Gallia			2	12,000
Geauga			6	108,950
Greene			4	129,000
Guernsey			3	25,000
Hamilton			3	3,200,000
Hancock			3	25,000
Hardin			2	65,000
Harrison			3	40,000
Henry			3	20,000
Highland			3	*
Hocking			4	75,000
Holmes	†	22,000	†	202,000
Huron			14	73,000
Jackson			†	59,250
Jefferson			3	275,000
Knox	1	95,000	4	225,000

NUMBER AND VALUE OF COUNTY BUILDINGS IN OHIO—Continued.

Counties.	County buildings erected within the year ending June 30, 1878.		All county buildings now existing.	
	Number.	Value.	Number.	Value.
Lake			3	\$50,000
Lawrence	1	\$5,000	4	44,000
Licking	1	180,000	3	255,000
Logan			3	150,000
Lorain			3	13,500
Lucas			4	117,500
Madison			2	45,000
Mahoning			3	122,000
Marion			2	4,850
Medina			3	—
Melgs	1	12,000	3	—
Meuer	1	500	6	100,500
Miami			4	95,000
Monroe			3	50,000
Montgomery			6	500,000
Morgan			3	40,000
Morrow			3	60,000
Muskingum			6	225,000
Noble			3	40,000
Ottawa			3	25,000
Paulding			4	25,000
Perry			3	25,000
Pickaway			2	150,000
Pike			3	50,000
Portage			3	70,000
Preble			3	50,000
Putnam	1	8,450	4	48,450
Richland			3	197,885
Ross	1	25,000	3	275,000
Sandusky			3	60,000
Scioto	†	10,000	1	90,000
Seneca	2	22,000	4	42,000
Shelby			3	116,000
Stark			3	225,000
Summit			3	160,000
Trombali			3	100,000
Tuscarawas			3	25,000
Union			3	70,000
Van Wert			4	120,000
Vinton			4	36,000
Warren			4	150,000
Washington			8	60,000
Wayne			3	180,000
Williams			6	—
Wood			3	40,000
Wyandot			4	60,000
Totals	■	\$412,450	310	\$11,082,325

* Value not reported.

† Number not reported.

‡ None reported.

§ Not reported; number and value estimated from previous reports.

[illegible]

TABLE SHOWING THE NUMBER AND VALUE OF NEW STRUCTURES, AS REPORTED BY COUNTY AUDITORS, ETC.—Continued.

Counties.	Churches.		County buildings.		Dwellings.		Factories.		Glass-works.		Hotels.		Furnaces, iron.		Machine shops.		Flouring mills.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Shelby	3	\$3,500	.....	.....	43	\$36,320	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stark .....	.....	.....	.....	.....	178	61,920	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Summit	1	3,000	.....	.....	232	117,000	12	\$12,990	.....	.....	1	\$5,000	.....	.....	.....	3	\$11,300	.....
Trumbull .....	.....	.....	.....	.....	107	38,025	2	300	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tuscarawas .....	.....	.....	.....	.....	94	46,964	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1,000	.....
Union	2	3,500	.....	.....	137	56,900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Van Wert .....	.....	.....	.....	.....	45	15,625	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vinton .....	.....	.....	.....	.....	21	6,225	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Warren .....	.....	.....	.....	.....	78	49,781	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Washington .....	.....	.....	.....	.....	89	20,185	.....	.....	.....	.....	1	700	.....	.....	.....	5	4,300	.....
Wayne .....	.....	.....	.....	.....	131	55,785	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2,100	.....
Williams .....	.....	.....	.....	.....	79	19,770	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2,500	.....
Wood .....	.....	.....	.....	.....	198	56,610	3	1,700	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wyandot	2	5,000	.....	.....	127	120,720	1	5,000	.....	.....	1	3,000	.....	.....	.....	1	3,000	.....
	20	\$224,500	10	\$393,450	10,900	\$6,049,763	50	\$73,845	1	\$1,000	12	\$50,210	16	\$235,738	■	\$44,690	44	\$32,760

TABLE SHOWING THE NUMBER AND VALUE OF NEW STRUCTURES, ETC.—Continued.

Counties.	Saw-mills.		Public halls.		Railway sta- tion houses.		School- houses.		Stores.		Shops and other business houses.		Miscellaneous.		Total value.
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	
Adams	18	\$3,150	\$20,717
Allen.....	46	10,935	82,540
Ashland	42	12,950	48,960
Ashtabula	50	7,632	73,325
Athens	1	\$5,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53,890
Auglaize	39,720
Belmont	1	600	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	67,387
Brown	25,275
Butler	122,085
Carroll	19,641
Champaign	102,270
Clarke	1	\$1,000	1	600	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	221,290
Clermont	50,330
Clinton	1	20,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	113,960
Columbiana	2	850	1	7,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	90,235
Coaston	41,790
Crawford	81,335
Cuyahoga	3	560	1	4,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	762,510
Darke	70,240
Defiance	68,175
Delaware	73,143
Erie	44,360
Fairfield	1	650	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	72,780
Fayette	61,400
Franklin	515,000
Fulton	4	1,025	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28,615
Gallia	30,622
Geauga	2	1,550	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19,650
Greene	135,037
Guernsey	31,325
Hamilton	3	305,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,693,790
Hancock	71,498
					15	19,133	1	100					51	13,145	

TABLE SHOWING THE NUMBER AND VALUE OF NEW STRUCTURES—Continued.

Counties.	Saw-mills.		Public halls.		Railway station houses.		School-houses.		Stores.		Shops and other business houses.		Miscellaneous.		Total value.
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	
Hardin	8	\$9,075	...	...	34	\$6,225	\$68,100
Harrison	15	3,550	14,800
Henry	4	\$2,000	5	3,000	10	\$1,500	...	...	16,500
Highland	1	900	3	1,050	...	...	16	1,200	33,725
Hocking	3	4,200	3	1,775	13	2,510	111,310
Holmes	71,350
Huron	12	8,000	1	500	45	5,000	80,170
Jackson	9	1,475	24,710
Jefferson	1	300	3	1,000	8	1,650	37,030
Knox	1	\$400	...	...	...	...	2	1,200	3	500	...	...	23	3,845	136,465
Lake	4	...	43	6,576	48,370
Lawrence	1	600	1	\$2,400	...	...	1	300	2	5,620	1	300	5	11,247	47,213
Licking	11	16,762	...	...	34	11,165	269,922
Logan	4	32,100	1	10,000	5	2,705	38	8,020	98,055
Lorain	1	\$3,800	...	...	3	3,000	...	...	53	12,000	79,800
Lucas	3	1,050	...	...	1	200	...	...	42	46,560	...	...	50	7,280	116,480
Madison	15	2,820	47,030
Mahoning	2	1,200	1	850	...	...	3	2,000	...	...	1	700	43	10,400	69,925
Marion	1	800	...	...	...	...	...	...	12	16,300	...	...	55	13,370	116,570
Medina	1	5,000	40	8,205	...	...	55,905
Meigs	21	32,706	...	...	...	...	68,415
Mercer	8	5,500	...	...	...	...	36	6,255	29,770
Miami	5	8,400	4	650	77	18,360	94,724
Monroe	28	5,675	18,410
Montgomery	57	20,650	218,640
Morgan	8	4,053	...	...	2	3,900	...	...	20,728
Morrow	3	2,500	...	...	...	...	4	1,000	94,840
Muskingum	4	7,800	9	1,290	...	...	142,540
Noble	5	5,880	...	...	36	10,310	7,150
Ottawa	2	200	...	...	16	2,025	42,230
Paulding	1	300	...	...	...	...	3	2,500	5	2,650	61	9,200	11,563
Perry	3	600	...	...	1	116	...	...	12	2,530	116,500
	2	150	1	800	12	3,100	

BUILDINGS AND OTHER PROPERTY DESTROYED BY FIRE, ETC.

TABLE SHOWING THE VALUE OF PROPERTY DESTROYED BY FIRE, FLOOD, OR OTHER
CAUSES IN OHIO DURING THE YEAR ENDING JUNE 30, 1878.

Counties.	Public buildings destroyed by fire.		All other buildings destroyed by fire.		Buildings destroyed by floods.		Buildings destroyed by other causes.		Other property de- stroyed by fire or flood.	Total.
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	Value.	
Adams			2	\$600						\$600
Allen			15	5,067						5,067
Ashland			6	2,528						2,528
Ashtabula	1	\$200	16	6,235						6,435
Athens			12	8,731						8,731
Auglaize	1	1,100					4	\$1,600		2,700
Belmont			4	4,761			1	150		4,911
Brown			4	580						580
Butler			6	5,690			5	4,030		9,720
Carroll			10	2,000						2,000
Champaign			4	850						850
Clarke			7	3,920						3,920
Clermont	1	6,000	15	5,950	1	175	1	400		12,525
Clinton			3	3,000						3,000
Columbiana			15	7,908						7,908
Coshocton			12	7,935						7,935
Crawford			4	1,900						1,900
Cuyahoga							38	30,390		30,390
Darke			2	620			1	100		720
Defiance			3	2,250						2,250
Delaware									\$3,445	3,445
Erie			19	8,025	1	2,000	3			10,425
Fairfield			2				1	700		1,150
Fayette			2							800
Franklin*										
Fulton	3	4,500	6	560						5,060
Galla			3	800						800
Geauga			2	160						160
Greene				1,350			5	950		2,300
Guernsey			7	2,605						2,605
Hamilton			12	61,800						61,800
Hancock			11	4,314						4,314
Hardin			3	1,500						1,500
Harrison			3	1,200						1,200
Henry			4	1,000					500	1,500
Highland*										
Hocking			1	300						300
Holmes			7	3,550						3,550
Huron			15	3,370						3,370
Jackson*										
Jefferson			1	3,000						3,000
Knox			3	1,800	1	726	1	484		3,010
Lake			2	250						250
Lawrence			2	350						350
Licking			7	4,850						4,850
Logan			8	2,090						2,090
Lorain			11	4,000						4,000
Lucas			11	4,930						4,930
Madison			10	2,790						
Mahoning			23	9,000						9,000
Marion			4	1,450			1	105		1,555

BUILDINGS AND OTHER PROPERTY DESTROYED, ETC.—Continued.

Counties.	Public buildings destroyed by fire.		All other buildings destroyed by fire.		Buildings destroyed by floods.		Buildings destroyed by other causes.		Other property destroyed by fire or flood.	Total.
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	Value.	
Medina			10	\$2,600						\$2,600
Meigs			8	5,043						5,043
Mercoer			4	630			3	\$4,080		5,310
Miami			3	685			4	1,030		1,715
Monroe									\$704	704
Montgomery			3	1,150						1,150
Morgan			2	1,950			1	670		2,620
Morrow			1	600						600
Muskingum			4	1,000			12	14,500		15,500
Noble*										
Ottawa			9	3,400						3,400
Paulding	1	\$2,500					1	116		2,616
Perry			1	120			5	890	2,500	3,610
Pickaway			1	300						300
Pike*										
Portage			6	1,150			2	1,100		2,250
Preble			7	1,475						1,475
Putnam			5	1,600						1,600
Richland	1	4,500	10	3,500						8,000
Ross							2	2,080		2,080
Sandusky			2	750						750
Scioto			2	3,700						3,700
Seneca			10	2,454					1,000	3,454
Shelby									1,300	1,300
Stark			8	2,700			6	1,175		3,875
Summit			11	5,500			1	15,900		21,400
Trumbull			11	13,918						13,918
Tuscarawas			12	11,282						11,282
Union			5	4,000						4,000
Van Wert	2	2,400								2,400
Vinton			3	625						625
Warren			6	1,890						1,890
Washington			10	3,645	1	500	11	2,558		6,703
Wayne			5	2,110						2,110
Williams			7	1,995						1,995
Wood			8	3,430						3,430
Wyandot*			5	2,000						2,000
Totals ..	10	\$31,200	507	\$232,031	4	\$3,401	109	\$24,308	\$9,449	\$58,148

*None reported.

GENERAL REVIEW OF THE TRADE AND COMMERCE OF CINCINNATI.

BY SIDNEY D. MAXWELL,
Superintendent of Cincinnati Chamber of Commerce.

At the time of the review of the business of the city one year ago, there were many evidences of the country having entered on an improved condition. How far these were traceable to the abundant crops, and the temporary stimulation given to trade by the simultaneous outlay throughout the farming districts of the partial proceeds of the same, to meet urgent and delayed wants, was not clear, though there was much better reason to believe a permanent change had come, than had existed at any corresponding period since the depression had begun. The subsequent events did not by any means fulfill the hopes generally of the business men of the country. After the first of October, the merchants and moneyed men became anxious concerning the future, and people generally settled back into their conservative habits of keeping as near a good harbor as possible. The shrinkage in values of commodities, which was generally thought to have reached a conclusion the year before, continued, until it became one of the distinguishing features of the year, while the whole period was marked by failures, large or small, throughout all parts of the country. As the summer approached, and especially as the dawn of a singularly generous harvest again broke upon the country, and the conviction gained ground that the resumption of specie payments, to which we were steadily gravitating, would not be interrupted, there were marked indications of a revival in business. Freights began to crowd upon the transportation lines, country merchants were generally encouraged, manufacturers found larger inquiry for their products, and there was manifest an improved tone to the whole business health of the country. These, however, were tempered, in no little degree, by the unfavorable operation of the bankrupt law, with its dangerous temptations and iniquitous facilities for fraud, and by the great business shadow which overspread the country, and especially this part of it, as the pestilence, which commenced in New Orleans in mid-summer, marched northwardly and into the interior of the South with alarming persistency. These, however serious at the time, were temporary, the latter having been destined to yield to the merciful frosts, and the former, fortunately

to expire by limitation. Barring the necessary results of these influences, there can be entertained no doubt of a steady improvement having occurred. It has not been sudden, and consequently to some it may not seem to exist, for there have been those who expected some miraculous development which could never come. The conviction has become general that we have entered upon a better condition, which, with business so largely resting on faith, must go far to secure the result desired, or without which no permanent improvement could exist, even with other conditions favorable. The weak members of the business body have mainly fallen. The number of persons in business has been reduced. The farmers of the country are generally in good condition, and though their products are commanding low prices, the purchasing power of the equivalent they receive for their grain is far greater, relatively, than is generally believed. The common carriers of the country, tired of their useless wars, have sought to repair their wasted energies by a better understanding, and are generally making an improved showing. Money is ample and cheap. Capital in abundance, though instinctively cautious, awaits investment when it can be assured that improved business absolutely demands it. The people, through trial, have learned lessons of economy which will last through many years, and, more than all, in its bearing on the business future of this country, and its influence on other nations, urged by a necessity as strong as the instincts of self-preservation, the search in the past five years for cheaper processes, lower priced materials, and more economical management generally, has so reduced the cost of production, that our products have flowed out to other nations to an extent and in a variety that has had no parallel in the history of the country. From these business sorrows have thus dawned a supremacy to American manufactures which stamps the period as an epoch. These conditions are general, and yet, in the main, they apply equally well to Cincinnati, and in their light the business of the year must be measured, for while they furnish explanation of reduced aggregate values on the one hand, they give the larger significance to the manner in which Cincinnati has maintained her position, when measured by the only true standard, which is quantity. In this connection, it may be proper to allude more specifically to the decline which has taken place in prices during the past year. Pleasant as it might have been to indulge hopes that values one year ago had reached their lowest stage, the fact remains that there is scarcely an article that does not show a lower average value than it did the year preceding. In some commodities this has been marked, in others, less so, but in the whole it has been sufficient to materially lower the aggregate values in almost all departments of business within the year.

The business in grain, during the past year, shows a material increase, both in quantity and value, and gives promise of a much wider sphere for the grain trade than has ever before been enjoyed. The aggregate receipts of grain of all kinds reached 11,165,697 bushels, in comparison with 8,778,581 in 1876-77, while the shipments were 4,498,608 bushels, compared with 2,716,857 in the previous year. The business in both wheat and barley has had no parallel in the history of the trade here, while corn has been but once exceeded. The aggregate approximate value of all the grain received in the late year was \$7,228,583, compared with \$5,944,106 in the previous year, and of the shipments \$3,995,233, in comparison with \$2,308,986. It will be seen that there was an increase in the receipts of all kinds of grain, in quantity, of 2,387,116 bushels, and in value, of \$1,284,477.

In provisions, though the aggregate values show reduction on account of the material decline in prices, the aggregate shipments of the hog product for the commercial year were 153,239,511 pounds, compared with 140,955,854 in 1876-77. The receipts during the same period were 29,714,126 pounds, and 29,750,418, respectively. The aggregate approximate value of the shipments for the year was \$10,734,410, in comparison with \$12,842,953 in 1876-77, and of the receipts, \$2,054,367, compared with \$2,646,971. Thus it appears that while the aggregate value of the shipments has fallen off \$2,108,543, the aggregate quantity shows an increase of 12,283,657 pounds. The whole number of hogs packed in the winter packing season of 1877-78, was the largest in the history of the city, and promises to be still increased in the year on which we have entered. There were packed in the winter season of 1877-78 632,302 head, in comparison with 523,576 in the preceding year, with aggregate values, respectively, of \$7,540,967 and \$8,488,837.

The year's work in cotton makes a better exhibit than that of the year preceding. Our direct trade with Europe shows an increase. Besides having been here a more satisfactory season to dealers, the movement exhibits an increase over the preceding year, the receipts having been 184,895 bales, with an approximate aggregate value of \$9,660,763, compared with 175,527 bales, and a value of \$9,215,167 in the preceding year, and the shipments 183,983 bales, with an approximate value of \$9,613,111, compared with 171,834 bales, and a value of \$9,021,285.

In flour, the year makes a decidedly better showing, as far as both extent and quality are concerned, though it has by no means been a satisfactory one to millers. Besides an increase in the capacity of our mills here, there was an enlarged movement, the aggregate receipts having been 606,667 barrels, compared with 540,128 in 1876-77, and the shipments

883,954 barrels, in comparison with 296,373. The aggregate approximate value of the imports and exports was \$4,754,976, compared with \$5,648,466 in the preceding year.

The business in whisky, at this city, is so varied, and the work of continuous distillation has so disturbed the relation which highwines and re-distilled goods, in contradistinction from the continuously distilled, sustains to the whole business, that it is not an easy task to arrive at the relation which the past year or two sustained to the preceding years. The actual production of distilled spirits at Cincinnati alone, shows a slight increase over 1876-77, but the distilleries on the Kentucky side of the river exhibit a material reduction. The aggregate production of Cincinnati and the adjacent cities was 10,392,515.09 proof gallons, compared with 10,726,103.50 in the previous year. The aggregate value of the production, without adding the additional value growing out of the spirits mainly having been continuously distilled, would be, approximately, \$10,849,785, in comparison with \$11,434,026 in 1876-77. If to these figures were added the receipts from the interior of all kinds of whisky, it would swell the entire aggregate to 16,058,217 gallons, with an approximate aggregate value of \$18,000,000. But this by no means represents the entire business, for to this must be added the increased value growing out of the processes of continuous distillation, and of rectification, the quantity rectified during the late year in Cincinnati and Covington having been 12,072,483.45 proof gallons, in comparison with 11,443,880.70 in the previous year. The business of rectifying, though largely conducted now by the firms who manufacture the goods from the grain, is a separate one, and, in making comparison with previous years, would have to be so regarded. It will be seen that if to this were added the increased value growing out of rectification, it would largely swell the grand total. The taxes paid on whisky, in the past year, by Cincinnati and the Sixth Kentucky district, aggregated \$9,446,645.23.

The past year, in leaf tobacco, brought to Cincinnati the largest trade she has ever had, and, with the enlarged usefulness of the leaf of this district, more clearly revealed the commanding position which this city is to enjoy in this branch of trade than has any preceding year. The receipts at the warehouses aggregated 39,022 hogsheads, in comparison with 34,133 in 1876-77, while the offerings and sales also exhibited an increase. The whole receipts at Cincinnati, for the year, were 88,280 hogsheads, compared with 71,217 in 1876-77, with an approximate aggregate value, including, also, cases and bales, of \$7,885,090, in comparison with \$6,517,870 in the preceding year. The production of cut tobacco, for the year, at this city, under the influence of a tax regarded onerous

by both manufacturers and producers, the steady growth of tobacco for personal use, and to some extent of an increasing demand for plug tobacco, shows a falling off compared with the previous year, but this, in the grand aggregate, finds partial compensation in the enlarged facilities for the production of plug tobacco, to which our manufacturers are now turning their attention, and in an increased production of smoking tobacco. The aggregate production of chewing and smoking tobacco, for the year, in Cincinnati, Covington, and Newport, was 6,454,156 pounds, compared with 6,632,638½ in the preceding year. The number of cigars made shows a material increase, having been, in the three cities, 103,020,275 cigars, compared with 88,792,375 in 1876-77. The total taxes paid the general government on tobacco of all kinds, in the three cities, were \$2,175,354.33, compared with \$2,130,244.32.

The business in iron does not exhibit material change, save that the old year went out with an improved feeling among producers and dealers. The aggregate sales of pig iron from first hands were 125,912 tons, compared with 129,194 tons in the year 1876-77. The movement of manufactured iron exhibits an increase, and the business, as far as quantity is concerned, doubtless has been well maintained, if not really enlarged. The receipts of nails were the largest in the history of the city, having been 431,245 kegs compared with 388,025 in the previous year. The business, however, in manufactured iron, was conducted, throughout the year, under circumstances well nigh as disadvantageous as in 1876-77. There was apparently, an increased consumption, but there was a superabundance of iron, a depressed market, and steadily declining prices until toward the close. But in both pig iron—which has been more generally distributed from this city perhaps than ever before—and in manufactured goods there has been a conviction of late that the whole business has entered upon a better condition.

The business in groceries in all its bearings has been as satisfactory as any of the great departments of our business. Groceries have been sold on slender margins and prices have generally been lower, compared with the preceding years, but there has been among dealers, both here and in the interior, a general conviction that the whole business in this line had reached solid ground. The receipts of coffee for the year aggregated 220,025 bags compared with 188,544 in 1876-77; of sugar, the equivalent of 122,802 barrels in comparison with 274,400; of molasses, 51,572 barrels compared with 44,000. The aggregate approximate value of coffee, sugar, molasses and rice for the year was \$3,442,000 in comparison with \$3,432,500 in 1876-77.

The year in the coal trade was distinguished by low prices and a large supply, induced by a good navigable river. The receipts of all

kinds aggregated 38,892,229 bushels, compared with 39,622,634 bushels in the preceding year, with an approximate aggregate value, in 1877-78, of \$3,007,260, in comparison with \$3,199,797 in 1876-77. Of the entire receipts, the river contributed 36,798,454 bushels, being a slightly increased per cent. over the preceding year in its relation to the whole quantity.

The aggregate business in salt falls slightly below the preceding year, the receipts of domestic salt, including sales made here for delivery directly from the furnaces, without the same touching Cincinnati, having been 268,663 barrels, in comparison with 281,744. The actual receipts and shipments here, however, have both increased. The business in foreign salt has also been less, the receipts having aggregated 51,148 bags, compared with 56,883 in the preceding year. The aggregate approximate value of all the salt received was \$311,491, compared with \$434,432 in 1876-77.

The manufacturers of soap and candles, distinguished always for the vigorous prosecution of their work, have had a year of great activity, especially in the former. The production of soap here has never been equaled. In addition to such as was consumed here, there were shipped from this city, of soap, 366,802 boxes, while the calendar year will show still larger results. There has been, in soaps alone, an increase in shipments, within two years, of about 100,000 boxes.

In live stock, the business, with the exception of cattle, shows an increase over the previous year. The receipts of hogs were 1,043,334 head, with an approximate aggregate value of \$11,114,772, in comparison with 932,992 head, and a value of \$13,443,083 in the preceding year; of cattle, 173,987, with a value of \$8,226,196, compared with 202,726 head, and a value of \$10,657,336; of sheep, 362,493 head, with a value of \$1,499,042, in comparison with 246,188 head and a value of \$1,006,449, making a total of hogs, cattle, and sheep in value, of \$20,840,010, in comparison with \$25,106,868 in 1876-77, thus showing that, though the number of head of stock has materially increased, the value has largely diminished. The receipts of horses (embracing also mules) were, approximately, 16,506 head, with a value of \$1,209,889. The data for the previous year are not so satisfactory with reference to the actual receipts, though the sales at the stables indicate an increase this year of 3,312 head, and an increase of \$231,866 in aggregate value.

The business in malt liquors, which is steadily increasing the scope of its distribution throughout the country, has been the largest in the history of the trade here, the production of Cincinnati, Covington, and Newport, for the year, having been 18,444,261 gallons, compared with 15,915,896 in 1876-77, showing an increase of 2,528,365 gallons, with an approximate aggregate value in the late year of \$4,601,157, in compari-

son with \$5,134,160, the difference in value being traceable to materially lower prices.

The sales of petroleum, from first hands, exceeded any previous year, having been 217,294 barrels, in comparison with 175,374 in 1876-77. Of the former, there were 183,509 barrels of illuminating oils, in comparison with 140,267 in 1876-77. The production of starch was also the largest in the history of the city, and the product was never before so generally distributed. There were manufactured 21,841,156 pounds, with an approximate aggregate value of \$725,000, compared with 18,800,839 pounds and about the same value in 1876-77. The business in clover and timothy, and grass seeds generally, was not in volume up to the preceding year, and prices mainly were much lower. The receipts aggregated 53,865 bags, compared with 69,007 in the previous year.

The receipts of lumber have fallen off, having been, approximately, 89,000,000 square feet, in comparison with 101,000,000 in the previous year. The business in cheese has fallen somewhat below the aggregate of the previous year, while butter and eggs have both exceeded the season of 1876-77. Butter has been more plenty than in many years, and eggs, for a long period, have not been either so abundant or so low as during a part of the past year. The business in feathers has been well maintained, the figures showing the receipts here to have been 12,006 sacks. The receipts of bran, middlings, etc., have been 11,052 tons, in comparison with 11,480 tons in the previous year, but there is compensation for this slight loss, found in larger quantities shipped directly from the interior, through the dealers here.

The production of leather in 1877-78 was not so large as in the preceding year, and yet the general business was well maintained under unfavorable circumstances, the receipts having been 28,371 bundles, compared with 28,188 in the preceding year, and the shipments 37,491, in comparison with 38,401. The business in hides during the year shows an increase, the receipts by public and private conveyances having aggregated, approximately, 10,000,000 pounds. The receipts of hay were somewhat below those of 1876-77, though not materially so, having been, approximately, 181,376 bales, compared with 186,688.

To the dry goods trade of this city there has been, in the main, a better complexion than at any time since the close of the war. The aggregate value was hardly equal to the previous year, and yet this was traceable to a lower range of prices, and not to a diminished volume of business, measured by packages and yards. The business in clothing was not so satisfactory as in 1876 77, though this was by no means traceable to any less capacity for business usefulness here—for the business

has never been more vigorously pushed. The aggregate sales at wholesale, for the year, were, approximately, \$10,915,000 compared with \$11,365,000 in 1876-77. The dry goods commission trade has been well maintained. No department of our business shows greater vigor or is more rapidly extending its commercial usefulness than that of boots and shoes. Sales during the early part of the year were not up to the previous year, but the fall trade goes far to compensate for any deficiency arising either from this or from lower prices. The business in wool was largely an unsatisfactory one to the dealers of the country, both the winter and summer bringing a decline in prices. Cincinnati, however, was generally a free seller, and the year brought to her a fair return. The aggregate receipts were 20,182 bales, compared with 19,531 in 1876-77. The paper business shows an increase, the manufactories in the district tributary to this city having produced, of all kinds of paper, 47,347,415 pounds in comparison with 42,977,068 pounds, with an aggregate value in 1877-78 of \$3,085,340, compared with \$3,089,021 in 1876-77. In hardware the year has been a trying one to our wholesale dealers, and aggregate sales have materially fallen off. The general stiffening of the market, however, of late, has done much to encourage our merchants in this line of goods.

The business in crockery has been well maintained, but it has been a period of extraordinarily low prices, which, under the pressure of English wares, seemed to have no limit to declension. In few other articles of merchandise has the shrinkage been so great. This has not been so favorable to domestic production, and yet our potters, with commendable enterprise, have indefatigably proceeded in their work of building up this industry, which has the larger distinction here, because of the luster which has been lent to it by the recent discovery of a process of underglazed decoration, promising brilliant results, by our talented and courageous townswoman, Miss M. Louise McLaughlin. The granite wares of this city are steadily improving in quality, and find sales each year in a wider territory. Our business in glassware, in volume, was about equal to the previous year. The production in fruit jars was materially increased, while the remainder of the line was well maintained, though at still lower prices than had previously ruled. The business in drugs, in volume, was about equal to the year preceding. Prices were lower, but there was a much improved feeling among the customers of the city, who manifested a disposition, toward the close, to buy much more liberally than for a considerable period.

The business in cooperage, mainly, was not unlike the previous year, save that there were reduced supplies of country cooperage. Prices were

low and margins narrow. The aggregate product of the city was probably below the previous year, but there was toward the close of the year a considerably improved feeling, predicated on light stocks and a larger inquiry. The year, to our ice men, was an eventful one. The open winter made it necessary to rely on old stocks, or to draw on remote points at advanced rates, which our dealers were compelled to do to fill their contracts and meet current wants. It was an opportune occasion for the introduction of ice made by scientific process, for which arrangements were completed during the year. Ice, so manufactured, toward the latter part of the season, was successfully produced in considerable quantities, and delivered to customers in the city at low prices.

In silver-ware and jewelry there was, especially toward the close of the year, a materially increased business. In some kinds of goods a still further decline was established. The business in school-books was fully equal in bulk to the previous year, though, owing to a decline in prices, it also fell somewhat below the preceding season in aggregate value. There was about the usual production of law and medical books. The business in miscellaneous books was well maintained. The market, however, was crowded with cheaper editions of standard works, in some degree to the detriment of aggregate sales.

Our business in silk and millinery goods, embracing here also the articles of cloaks and ladies' suits, made considerable progress during the year. In the latter articles particularly, during a part of the period, there was much activity. The year, in hats, caps, and furs, will, like some other departments, show a diminished aggregate value, with the usual bulk of goods at lower prices than the preceding year.

The trade in foreign fruits has exhibited considerable improvement during the year. The canning of fruits and vegetables, a comparatively new industry here, makes a larger exhibit than ever before. The business in dried fruits, too, shows a material increase over the preceding year, the receipts having been the largest in the history of the city, though the season was one of singularly low prices, and was unfavorable to dealers. The receipts of broom corn aggregated 1,403,900 pounds, having somewhat fallen off compared with 1876-77. The first direct shipments of corn from this city to Europe were made during the year. The largely diminished crop of peanuts in Tennessee, which mainly finds a market here, reduced the receipts at this city, which were 276,505 bushels, compared with 461,545 in the previous year. The business in hops, measured by the quantity of the commodity, was only once exceeded here, the receipts having been 8,666 bales, while the average price was only half that of the preceding year. The business in beans was

greatly below an average, the receipts, owing to the poor quality of the crop in this vicinity in 1877, having been the lightest in twenty-three years. The business in naval stores was only once exceeded, which was in 1876-77. The aggregate receipts in the past year were 40,911 barrels, compared with 44,619 in the previous year. Of this quantity, rosin contributed 31,395 barrels, compared with 30,125 in the year preceding.

From the tables which have been furnished by R. H. Stephenson, Esq., Collector of Customs at this port, it will be seen that our import business with foreign countries, under the provisions of the act of 1870, providing for direct importation, has materially increased. The aggregate invoice value of the imports made directly through this port, for the fiscal year ending June 30, 1878, was \$632,528, on which duties were imposed amounting to \$271,590.43, compared with \$465,912, and duties of \$179,170.21 in the previous year. The aggregate invoice value of merchandise imported and appraised at other ports, and transported to the port of Cincinnati, shows a heavy decrease, having been \$83,260, with duties amounting to \$33,451.29, in comparison with a value of \$183,581, and duties of \$62,877.91 in 1876-77. The total value of goods imported under both laws was \$715,788, with duties of \$305,041.72, compared with \$649,493, and duties of \$242,048.12 in the preceding year.

In the great department of manufactures, to which, in some particular cases, where they were specially allied to commerce, allusion has been previously made, and on which the foundations of our prosperity so largely rest, the past year, while not having been eventful, has been in the main encouraging. The further reduction in the value of raw products, and the increased economical tendencies in all the walks of life, have largely forbidden the anticipation of future demands, thus limiting production, as far as possible, as in the immediately preceding year, to actual wants. But there has been of late a steady improvement in the belief of manufacturers that we had already entered on a better condition of things, and there has been an animation in producing circles, that has not been seen before since the commencement of the tremendous shrinking process to which values, business, and personal expenditures of late years have been subjected. According to the valuation figures of J. F. Blackburn, Esq., the Secretary of the Board of Trade of Cincinnati, by whose faithful labors Cincinnati has, what no other great city in the country enjoys, satisfactory and detailed statements annually of the operation and results of her industries and which tables with reference to manufactures have been incorporated in the annual report, the actual production of our manufactures for the year ending January 1, 1878, reached \$135,123,763, in comparison with \$41,142,345, in the previous

year, showing a reduction of \$5,460,192, though, in view of lower prices, exhibiting no decrease in actual production. The largest aggregate in any previous corresponding period was in the year ending January 1, 1876, when it was \$146,431,354, while in the year ending January 1, 1873, it was \$143,486,675. In the light of the tremendous depreciation in values which has taken place since 1872, these figures exhibit remarkable and encouraging progress, for it must be remembered that every dollar now represents a much larger product than it did before the great reduction in values began.

Although the figures show that the business of the city has been encouragingly maintained, when measured by the only true standard, which is quantity, as indicated by packages, pounds, yards, etc., the aggregate values, on account of the material shrinkage in prices which prevailed during much of the year, falls decidedly below 1876-77. According to the tables, which appear elsewhere, the total approximate aggregate value of the receipts of merchandise, not embracing whisky for reasons to be explained hereafter, nor general merchandise which is less specific than the remainder of articles reported, was \$112,708,172, in comparison with \$125,017,277 in 1876-77, and the shipments \$107,714,846, compared with \$113,421,205. Including whisky, the receipts aggregated \$119,533,199, in comparison with \$143,851,036, but of this reduction, over \$10,000,000 are accounted for by reason of the dropping from the imports of all whisky which appears in the returns of the revenue offices for the county of Hamilton, a part of which was previously embraced, and so much of the Sixth Kentucky District (Covington, etc.) as legitimately belongs to this city. Whatever reasons may have existed in other years for the incorporation of this particular part of the whisky, the business absorption by the city of the districts adjacent, and the close relation which now largely exists between the distiller and rectifier, render it desirable that this product should now be placed on a plane with other industries in the matter of statistics, by embracing in the lists only such spirits among the receipts as are really produced beyond the legitimate business boundaries of the city. In the exports, in which whisky remains unchanged as to method of reporting, the figures show as near as possible the actual quantity which went out, both of our local production and that which is received here from other districts. The aggregate approximate value of all shipments, save general merchandise, was \$125,867,246, compared with \$132,731,596 in 1876-77. By embracing the figures as to general merchandise, which comprises such articles as have no separate place in our statistics, and which in the very nature of the case must be more largely approximative than in specific commodities,

the total approximate aggregate value of the imports is shown to have been \$223,237,157, in comparison with \$260,892,540 in the previous year, and the exports \$186,209,646, in comparison with \$191,486,831 in 1876-77.

Such are some of the main features of the year's work, as they are revealed by, or deduced from, the detailed review of individual commodities which follows this summary of our business. There is much in the survey to afford encouragement to the well-wishers of Cincinnati. The general aspects which the commercial and industrial interests of the city present are certainly favorable. The main departments of our business have been well maintained, while some of them have shown decided progress. Cincinnati, like other communities, has sustained losses, but her interests are not crippled. Her merchants and manufacturers, during the five years of gravitation to normal prices, have been moved by a desire to maintain their position and provide for their usefulness in the future, rather than to enlarge the scope of their business for the time being, and in doing so they have prepared themselves to enter upon the enjoyment of improved times, with capacity to fully use the advantages which will be presented. Our river interests were never in a more encouraging state for usefulness. Our railroads are in a better condition, and under good management. The completion, long delayed, of the Cincinnati Southern Railroad is near at hand, opening up to us opportunities of commercial and industrial expansion which will only be limited by the enterprise we may use to secure its enjoyment. On the natural line from the south and south-west to the east and north-east, and from the South Atlantic and Gulf ports to the north and north-west, this city promises, in the near future, to be on a great national thoroughfare, with capacity to make the most of the situation. These through, as well as local facilities, which the standard gauges supply and are to furnish, are being supplemented by the narrow gauge railways, which are bringing us each month into more intimate relations with the less remote districts. To these purely business features of this period are to be added those of an educational nature, which also have commercial aspects of large significance. The past year has been distinguished by a number of events having an immediate bearing on the cultivation of the people, and yet sustaining a close relation to the business interests of the city. The ladies of the Women's Art Museum Association of Cincinnati, in the rich and successful display made at their Loan Exhibition, which was held during the past summer, more completely than ever before prepared the way for a permanent institution, to ultimately strengthen and improve the whole industrial fabric. The year, too, brought the completion of the new Music Hall, which, for capacity and adaptation to the pur-

poses of a large assembly, has no equal in this country. Scarcely had the last strains of the great festival which celebrated its inauguration died away, when there arose a College of Music, with the famous master of this continent at its head, with a full corps of instructors, and with a promise of success which astonishes all. To say these things come from a cultivated taste and a liberal art patronage does not tell the whole story. These achievements, so far-reaching in their influence on the country as to make it impossible to measure their importance, are rendered possible because they are splendidly and resolutely supported by the merchants and manufacturers of this city, in whose culture, sagacity, and liberality are largely found the secret of the strides we are now making toward becoming an art center, with all the social, educational, and commercial advantages which such an attainment implies.

The aggregate value of the products of our manufacturing industry, the number of hands employed, the value of real estate occupied, the cash capital invested, and the number of establishments engaged at Cincinnati, for each year in which statistics have been compiled touching these particulars, will be found in the following table:

Years.	No. of establishments.	Cash capital invested.	Value of real estate occupied.	No. of hands employed.	Value of production.
Total for year ending Jan. 1, 1841..	•	•	•	9,040	\$16,366,443
" " " 1851..	•	•	•	29,527	46,169,279
" " " 1861..	•	•	•	30,268	46,995,062
" " " 1870..	•	\$45,225,586	\$36,853,783	59,354	119,140,009
" " " 1871..	•	51,673,741	37,124,119	58,827	127,459,021
" " " 1872..	•	50,520,179	40,443,553	58,443	135,908,365
" " " 1873..	3,971	55,265,129	45,164,954	58,508	143,466,675
" " " 1874..	4,118	54,377,053	47,753,133	55,015	127,698,658
" " " 1875..	4,469	63,149,085	52,151,680	60,999	144,207,371
" " " 1876..	4,693	64,429,740	53,326,440	62,218	146,431,354
" " " 1877..	5,003	61,883,787	51,550,936	60,723	140,583,960
" " " 1878..	5,183	57,868,592	47,464,792	64,709	135,123,768

* Not reported.

The aggregate annual approximate value of the imports and exports, respectively, at Cincinnati, from 1854-55 to 1877-78 inclusive, appears in the following table:

Years.	Imports.	Exports.	Years.	Imports.	Exports.
1854-55.....	\$67,501,341	\$38,777,394	1866-67.....	\$135,061,233	\$192,929,317
1855-56.....	76,295,901	50,809,146	1867-68.....	220,063,948	144,262,133
1856-57.....	77,960,146	55,642,172	1868-69.....	283,127,903	163,084,358
1857-58.....	83,644,747	52,906,506	1869-70.....	312,978,665	193,517,690
1858-59.....	94,213,247	66,007,707	1870-71.....	283,796,219	179,848,437
1859-60.....	103,347,216	77,037,188	1871-72.....	317,646,008	200,607,040
1860-61.....	90,198,136	67,023,126	1872-73.....	326,023,054	213,320,768
1861-62.....	103,292,693	76,449,862	1873-74.....	331,777,056	221,536,862
1862-63.....	144,189,213	102,397,171	1874-75.....	311,072,639	201,404,023
1863-64.....	309,790,537	239,079,825	1875-76.....	294,214,245	190,186,929
1864-65.....	307,752,397	193,790,311	1876-77.....	260,892,540	191,486,831
1865-66.....	362,032,766	201,850,055	1877-78.....	223,237,157	126,209,646

THE MANUFACTURERS OF THE CITY OF CINCINNATI.—*Marvell.*

Table showing the cash capital invested, the value of real estate occupied, and the number of hands employed, in the various classes of manufactures in the City of Cincinnati and immediate vicinity, together with the aggregate value of the production, and the number of establishments engaged in each, for two years:

Class of manufactures.	Year ending January 1, 1878.					Year ending January 1st, 1877.				
	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.
Agricultural implements	7	\$226,000	\$251,000	221	\$318,800	7	\$231,000	\$275,000	213	\$313,000
Artificial limbs and trusses	4	15,400	17,000	16	27,960	4	17,000	18,000	20	37,300
Awnings and tents	11	14,800	21,900	36	37,500	10	14,300	23,000	35	35,200
Baking powder	10	13,000	20,000	54	169,300	9	12,000	20,000	51	173,200
Bellows and forges	3	53,000	41,000	39	48,000	2	48,000	38,000	34	36,000
Bells	3	70,000	48,000	41	169,100	3	69,000	48,000	39	153,200
Billiard tables (a)	1	75,000	45,000	65	180,000	1	75,000	50,000	65	182,000
Blacksmithing	147	83,800	200,000	593	423,980	145	94,500	207,000	563	387,900
Blinds (venetian)	3	2,500	3,500	8	3,850	3	2,500	3,500	8	3,850
Boilers	6	780,000	65,000	85	151,700	6	73,000	169,000	93	155,750
Book-binding and blank-books	38	160,000	441,000	519	642,700	35	208,000	515,000	590	765,800
Book and newspaper publishing	91	1,837,000	1,792,000	1,731	3,583,700	83	2,145,000	2,380,000	1,692	3,887,500
Boots and shoes	567	1,831,000	1,091,000	4,410	4,317,949	555	1,691,000	1,230,000	4,315	4,211,594
Boxes, cigar	17	13,100	33,800	103	89,900	13	10,500	15,000	83	63,500
“ paper	13	34,000	57,000	168	128,700	11	29,800	60,000	141	117,800
“ wooden (packing)	10	207,000	191,000	141	273,300	9	250,000	188,000	135	261,500
Brackets and hat racks	6	67,800	47,200	151	148,080	7	81,500	61,000	152	161,030
Brass founding and finishing	22	321,000	208,700	268	431,613	22	309,000	237,000	254	419,809
Bread, crackers, etc	269	331,000	491,000	1,500	2,072,690	260	398,000	549,000	1,475	2,123,580

Brick.....	34	350,000	250,000	550	480,000	36	325,000	290,000	470	400,000
Bricklaying.....	31	175,000	.....	260	549,585	23	165,000	.....	225	491,837
Britannia ware	1	20,000	10,000	35	50,000	1	23,000	17,000	25	50,000
Brooms	9	12,300	16,000	39	29,700	10	14,100	22,000	39	41,800
Brushes and wire goods	17	96,580	113,700	248	234,200	18	113,700	155,000	183	293,380
Building materials (exclusive of brick and stone)	25	933,000	1,128,000	1,029	1,617,600	21	935,000	1,187,900	971	1,471,700
Bungs	3	25,668	49,600	17	49,931	3	35,500	53,000	23	62,271
Burial cases and hearses	7	343,000	260,000	339	623,800	7	397,000	280,000	359	688,700
Candles, soaps, and oils	33	1,865,090	1,513,500	1,021	7,895,030	31	2,471,082	1,315,000	1,083	9,519,400
Candy and other confections.....	19	258,500	216,000	298	846,713	19	320,000	260,000	340	871,367
Canned goods.....	4	104,000	51,000	630	403,000	3	130,000	53,000	920	365,000
Carpentering	176	200,000	240,000	1,032	1,522,614	163	198,000	227,000	803	1,105,193
Carpets.....	23	21,800	49,300	88	78,300	27	32,900	62,700	91	74,360
Carriages and buggies.....	58	651,700	523,500	1,207	1,468,084	47	670,300	526,500	928	1,122,223
Carriage and wagon materials	6	257,000	162,000	224	343,480	5	337,000	164,000	167	303,334
Cement, lime and plaster	6	29,700	23,900	63	44,700	6	25,370	21,000	57	39,900
Cement felting (c)	1	5,000	3,000	6	10,000	1	5,000	3,000	6	10,000
Chair backs and frames	7	37,250	37,000	99	111,135	6	44,500	38,500	81	103,574
Charcoal, fuel.....	9	12,000	.....	47	26,800	8	12,000	.....	41	22,700
“ ground	3	9,700	12,800	13	37,200	3	11,000	14,000	13	34,000
Chewing gum.....	1	500	3,000	8	20,000	1	500	3,000	8	20,000
Children's carriages, hobby horses, etc....	3	35,800	31,000	69	84,000	3	34,000	31,000	57	74,000
Cloaks, mantillas, dress trimmings, etc....	16	190,000	225,000	1,255	647,830	16	185,000	227,000	777	587,410
Clothing and gents' furnishing goods	411	4,145,140	3,819,000	13831	10,131,300	440	4,367,000	4,110,000	12580	10,229,810
Coffins	10	20,000	21,200	39	33,700	10	21,200	24,000	39	36,300
Coke	5	24,800	116,000	33	103,900	5	28,000	130,000	33	110,800
Coloring (dyeing, etc)	53	96,200	98,000	214	173,800	25	21,000	78,000	94	89,800
Cooperage	81	243,300	218,500	632	628,000	78	188,300	145,700	460	477,570
Copper ware	7	15,900	43,000	32	91,870	7	17,850	45,000	32	95,930
Cordage	13	168,700	80,000	200	312,700	13	181,000	85,000	220	343,200
Cotton goods	4	233,000	353,000	312	516,000	5	255,000	344,000	259	543,275
Curled hair and bristles	7	160,717	70,500	201	277,892	7	144,650	73,000	190	292,518
Cutlery and edge tools	9	43,600	47,000	33	98,400	9	55,000	53,000	35	107,300
Dental work	30	30,000	40,300	75	107,300	29	30,300	45,700	73	98,700
Drain pipe	4	15,400	23,000	35	49,400	4	13,500	30,000	27	44,300
Drugs, chemicals and glycerine	21	917,000	500,000	268	2,181,500	21	800,000	520,000	257	2,133,700
Earthenware and queensware	9	169,000	177,000	296	257,500	9	241,000	173,000	313	297,800
Enameled iron ware and iron show cards....	3	40,000	39,000	80	155,000	2	46,000	39,000	89	202,880
Engraving, glass	2	3,700	4,900	5	11,000	1	700	2,400	2	1,000
“ metal	10	8,300	15,000	27	19,350	10	8,110	15,000	25	21,030
“ wood	12	9,900	14,400	47	40,800	13	11,500	17,000	45	37,780

THE MANUFACTURES OF THE CITY OF CINCINNATI—Continued.

Class of manufactures.	Year ending January 1, 1878.					Year ending January 1, 1877.				
	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.
Excelsior	2	\$12,000	\$19,000	24	\$21,300	2	\$12,000	\$19,000	24	\$20,500
Fertilizers	4	182,000	54,000	121	297,000	3	105,000	50,000	102	238,000
Files	4	12,500	20,300	34	45,000	4	12,449	23,500	31	40,200
Fire alarm telegraph, etc	3	7,500	5,200	13	15,500	1	6,000	4,000	6	10,000
Fire arms.....	6	4,800	3,500	14	9,000	4	4,000	3,000	12	7,500
Fire brick, tile, clay, etc	5	40,500	40,000	40	51,700	5	45,700	40,000	40	53,200
Fire works and explosives (a)	1	30,000	15,000	60	50,000	1	40,000	16,500	121	103,000
Fire wood and kindling	4	3,300	4,500	24	16,000	4	4,100	4,800	17	15,200
Flag and banner	2	14,000	10,000	27	45,000	2	16,000	11,000	35	60,000
Flour and meal (h)	8	200,000	160,000	55	387,938	9	211,000	180,000	59	389,201
Flowers and floral work (c)	22	130,000	455,000	83	217,500	22	130,000	455,000	83	217,000
Foundry facings	3	2,100	35,700	19	26,500	4	27,000	41,800	19	32,200
Frames and moldings	10	405,000	242,400	499	612,000	11	335,000	378,000	496	587,000
Furniture.....	139	3,084,740	3,392,600	3,852	6,888,194	128	3,171,600	3,970,600	3,535	6,816,423
Furs and gloves.....	7	66,000	60,000	85	158,400	7	62,000	60,000	76	153,700
Galvanized and sheet-iron work	13	184,500	168,000	191	549,300	11	154,000	170,000	171	531,700
Gas.....	1	4,250,000	1,500,000	400	1,100,000	1	4,000,000	2,000,000	310	1,245,500
Gas meters and machinery.....	3	60,000	63,000	37	111,000	3	60,000	63,000	37	111,000
Glassware (a)	1	200,000	110,000	220	200,000	1	200,000	110,000	220	200,000
Glass, stained and ground	6	11,200	13,300	24	28,360	5	10,700	13,000	19	27,873
Glue	6	151,000	70,700	66	231,000	5	183,000	70,000	63	247,300
Gold foil	3	19,900	13,200	47	68,400	2	17,500	10,000	40	66,240
Gold pens, pencil cases, etc	1	50,000	25,000	35	50,000	1	40,000	30,000	35	60,000

Grease and tallow	7	94,000	53,000	398,900	8	127,300	65,000	53	444,700
Hardware	5	255,000	190,000	400,000	5	270,000	225,000	299	419,000
Harness and saddlery	61	288,000	305,000	573,800	55	277,700	320,000	288	548,992
Hats and caps	13	23,000	40,000	127,380	14	27,500	41,000	94	113,530
Hoop skirts and corsets	5	7,600	16,000	12,800	4	7,500	20,000	11	13,700
Horse collars and hames	4	31,000	21,000	58,700	4	31,000	24,000	61	72,500
Hosiery	10	43,500	34,000	133,232	9	41,700	33,470	183	123,330
Ice (a)	6	200,000	600,000	500,000	5	215,000	575,000	200	485,000
Ink and blacking	7	3,000	40,000	124,800	7	35,100	40,000	43	133,000
Instruments, astronomical, engineering, etc	8	40,800	50,000	53,700	9	41,700	55,000	43	58,800
“ musical	9	11,600	23,000	22,200	10	15,700	32,000	32	36,300
Iron, bolts and nuts	5	111,000	114,000	230,000	5	125,000	118,000	163	238,700
“ castings, not otherwise specified	14	431,000	467,000	978,231	15	525,000	550,000	470	1,011,444
“ forged and rolled, exclusive of black-									
smithing	7	983,000	990,000	1,827,667	9	1,079,000	1,100,000	663	1,758,603
“ pig (t)				264,000					75,000
“ wrought (railing, jail work, etc.)	8	160,000	202,500	217,384	8	165,000	220,000	189	201,097
Jewelry and silverware	11	321,800	209,000	679,000	11	339,800	227,000	251	662,000
Lard (b)				2,712,216					3,707,796
Last (c)	1	2,500	3,500	7,970	1	2,500	3,500	8	7,970
Lead, sheet and pipe	2	120,000	40,000	450,000	2	90,000	40,000	15	335,000
Leather	43	1,131,000	860,200	1,850,090	44	1,263,500	947,100	617	2,317,580
Leather belting and hose	5	70,000	60,000	310,000	5	69,200	65,000	39	313,000
Lightning rods	2	4,000	7,000	8,500	2	6,300	8,500	11	13,500
Liquors, distilled (d)	10	2,200,000	650,000	8,012,602	10	2,300,000	650,000	327	8,185,128
“ malt (e)	27	3,000,000	3,350,000	5,139,585	27	3,000,000	3,350,000	871	5,075,676
“ rectified (f)	73	2,230,000	700,000	9,642,124	71	2,580,000	711,000	497	9,317,784
“ wine (a)				250,000					300,000
Lithographing	9	210,000	141,000	297,900	9	220,000	135,000	169	269,900
Locks and locksmithing	20	84,200	85,000	87,196	16	77,300	75,000	77	74,730
Machinery, including steam gauges	43	1,137,000	1,488,000	1,997,231	42	1,168,000	1,830,000	1,082	2,079,775
Malt, exclusive of that manufactured by									
brewers	14	228,400	458,000	573,400	14	318,000	432,000	77	737,000
Malt kilns	4	19,000	40,000	35,000	3	18,500	40,000	19	33,000
Mantels and grates	6	180,123	193,000	285,010	6	200,393	218,000	174	317,570
Maps (o)	1	3,000	6,000	3,500	1	3,000	6,000	5	3,500
“ Mattison ” flour packer (see machinery)					1	7,000	8,000	10	15,000
Mattresses and bedding	17	58,400	87,000	178,000	18	66,670	75,000	86	189,790
Millinery	558	378,000	450,000	825,600	558	343,000	463,000	1,313	857,500
Mill stones and portable mills	5	275,000	215,000	438,000	5	274,000	214,000	218	451,000
Mineral water	18	169,000	209,000	423,338	19	150,000	198,000	170	407,800
Neck ties	4	4,700	10,000	9,100	3	4,500	7,000	15	8,700

THE MANUFACTURES OF THE CITY OF CINCINNATI—Continued.

Class of manufactures.	Year ending January 1, 1878.					Year ending January 1, 1877.				
	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.
Ornamental plaster	3	\$2,500	\$5,500	14	\$9,200	4	\$2,500	\$5,100	13	\$7,370
Paper, printing, wrapping, etc	6	531,000	520,000	475	969,302	6	655,000	530,000	470	1,037,000
“ bags and flour sacks	6	126,000	120,000	151	549,302	6	142,000	130,000	169	540,257
“ collars	2	12,000	15,000	13	19,000	2	12,000	15,000	13	20,700
“ hangings	33	120,000	234,000	168	438,900	31	128,000	220,000	144	417,855
Painting, fresco	6	10,000	10,000	31	23,780	7	8,500	10,000	24	20,834
“ house and signs	124	89,200	101,300	343	503,931	110	68,700	71,800	271	325,056
Patent medicines (o)	8	197,900	113,000	71	373,348	8	199,700	113,000	71	373,348
Patterns and models	21	29,200	54,000	56	56,300	20	31,000	46,000	48	53,700
Photographs	30	21,100	89,375	81	151,100	34	29,300	109,666	93	187,360
Plastering	31	50,000	.....	225	334,930	25	45,000	13,000	207	242,528
Playing cards (a)	1	10,000	12,000	20	28,000	1	10,000	12,000	18	25,000
Pocket books	2	2,750	6,000	5	7,400	2	2,750	7,000	6	9,100
Printing, job	77	560,500	637,000	779	1,373,726	63	587,500	633,000	797	1,530,649
Provisions	116	5,600,500	3,530,000	1,250	14,897,228	120	7,000,000	3,800,000	1,300	18,093,659
Pumps and plumbing	69	333,760	282,000	341	488,000	64	291,400	300,000	327	483,000
Railway materials and supplies	7	430,000	460,000	391	858,155	7	500,000	480,000	420	1,000,150

6	152,000	125,000	153	351,000	8	132,000	129,000	131	398,900
3	23,000	35,000	22	29,000	3	23,000	27,000	20	41,000
5	30,000	23,000	40	53,700	5	29,000	23,000	41	54,170
11	135,000	100,000	138	280,548	11	117,000	95,000	113	202,550
6	5,370	10,000	11	7,860	3	4,240	8,300	8	5,880
2	23,500	23,500	40	45,300	2	27,500	23,500	42	53,800
5	1,000,000	428,000	970	1,916,000	5	1,040,000	462,000	945	1,730,000
5	92,084	97,517	46	74,885	5	107,743	113,000	47	71,732
4	35,600	37,000	34	65,000	4	35,600	43,000	34	62,700
5	8,400	19,000	22	22,400	5	5,100	16,700	21	21,130
3	7,000	14,000	27	23,000	2	6,000	13,000	25	20,000
5	120,000	61,400	94	158,400	5	121,300	61,400	94	158,400
1	3,500	3,000	4	7,500	2	4,100	11,000	6	8,700
4	33,000	41,600	63	76,630	5	42,000	49,000	47	91,700
7	42,700	81,000	67	79,707	9	47,300	48,000	61	87,475
8	153,000	116,000	93	388,920	9	138,225	93,000	99	367,694
10	44,200	40,000	98	126,100	10	41,700	43,000	81	98,330
2	600,000	362,000	183	885,000	2	275,000	350,000	170	815,000
3	140,000	170,000	120	311,000	3	183,000	170,000	123	294,900
12	55,000	47,000	41	58,820	13	52,760	51,700	36	77,380
9	18,500	45,000	48	51,000	9	20,700	45,000	48	53,270
41	732,210	601,000	731	1,407,400	37	819,600	730,000	717	1,218,900
2	932,000	645,000	1,111	1,358,500	11	1,067,000	851,000	1,285	1,431,500
2	2,700	3,000	4	4,100	2	2,700	2,000	4	4,100
64	184,800	291,600	420	676,710	65	198,495	323,270	428	703,270
493	880,000	900,000	2,500	2,169,722	430	725,000	740,000	2,230	1,955,390
29	900,000	540,000	900	2,066,002	23	1,000,000	650,000	790	2,155,528
14	102,000	256,500	120	180,800	15	117,500	275,000	193	303,252
5	286,000	220,000	344	480,000	5	280,000	220,000	327	391,197
5	4,700	8,500	14	11,400	8	5,300	13,000	35	24,200
6	160,000	70,000	35	210,000	6	160,000	70,000	36	210,000
2	105,000	65,000	66	186,000	9	90,000	60,000	46	185,000
2	2,500	2,300	7	8,760	2	2,500	2,300	7	8,760
15	135,100	150,000	55	565,000	15	137,500	157,500	51	618,500
49	162,000	258,000	358	458,500	45	133,000	275,000	313	439,900
9	638,000	326,500	207	1,236,000	10	1,134,000	412,000	395	1,424,000
21	39,900	85,000	113	103,500	22	36,000	91,000	111	119,100
11	5,800	8,200	21	11,000	16	4,700	17,500	33	23,200
4	9,000	16,000	22	16,700	5	9,700	20,000	26	17,500

THE MANUFACTURES OF THE CITY OF CINCINNATI—Continued.

Class of manufactures.	Year ending January 1, 1878.					Year ending January 1, 1877.				
	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.
Woolen and worsted goods	2	\$163,000	\$125,000	187	\$276,000	3	\$198,000	\$128,000	168	\$263,000
Wooden ware	16	200,000	210,000	337	555,900	14	209,000	253,000	312	569,000
Wood turning	12	25,000	43,000	57	77,800	17	22,200	40,000	55	79,900
Wringing machines	1	75,000	30,000	40	120,000	1	75,000	30,000	25	90,000
Totals	5,183	\$57,868,592	\$47,464,792	64,709	\$135,123,768	5,003	\$61,883,757	\$51,550,936	60,723	\$140,583,960

a, Estimated.
b, 25,830,634 lbs., 1877. Capital, hands, etc., included with "provisions."
c, Previous years' figures.
d, 8,434,316 gallons, 1877.
e, 16,341,245 gallons, 1877. Hands, product, etc., of bottling establishments included.
f, 9,182,975 gallons, 1877.
g, 86,300,400 cigars. 1,264,000 cigarettes, 1877.
h, 73,493 barrels, 1877.
i, 12,000 tons, 1877.
j, Number of establishments manufacturing plug tobacco, 2; fine-cut and smoking, 15; smoking, 6; snuff, 6. Quantity produced: plug, 83,162½ pounds; fine-cut and smoking, 4,093,411½ pounds; snuff, 14,302 pounds.

PAPER.

Table showing the production of the mills tributary to the city, for the year ending June 30, 1878, according to returns made to the Superintendent of the Merchants' Exchange. The list embraces the mills of twenty-nine firms or companies. Complete returns have been received from nearly the whole list, and careful estimates have been made where reports have not been furnished.*

Kinds.	1877-78.		1876-77.	
	Pounds.	Value.	Pounds.	Value.
Book	11,835,330	\$1,147,909	7,177,598	\$871,833
Manilla	9,663,257	692,257	9,443,722	769,023
News.....	8,903,453	621,422	9,919,242	716,196
Roofing	5,894,030	169,224	5,100,578	155,511
Wrapping	9,568,145	224,893	9,823,066	287,433
Writing	1,433,200	229,635	1,512,532	239,020
Totals.....	47,347,415	\$3,085,340	42,977,068	\$3,089,021

Kinds.	1875-1876.		1874-75.	
	Pounds.	Value.	Pounds.	Value.
Book	7,753,744	\$872,058	7,289,506	\$840,461
Manilla	8,796,918	704,400	7,092,664	616,587
News.....	8,210,703	743,167	9,208,669	845,935
Roofing	7,986,777	237,890	8,158,852	242,808
Wrapping	8,004,786	244,755	8,231,574	263,692
Writing	2,145,335	429,067	2,145,072	429,014
Totals.....	42,898,271	\$3,231,737	42,126,337	\$3,238,497

PORK PACKING IN OHIO.

Table showing, for the two past winter seasons, the number of hogs packed at the following places in Ohio that packed, in either season, 5,000 hogs and over. The blanks indicate either that the number was under 5,000, or that none were packed. The figures for both seasons are those of the *Cincinnati Price Current*.*

	1877-78.	1876-77.		1877-78.	1876-77.
Chillicothe	8,415	.....	Piqua .....	.....	5,000
Circleville	18,554	15,942	Ripley	5,000	5,560
Cleveland	107,762	121,202	Sidney	6,000	.....
Cincinnati.....	632,303	523,576	Toledo	19,729	12,369
Dayton.....	9,000	5,000	Washington C. H..	19,950	15,000
Hamilton.....	6,000	.....	Wilmington	5,000	7,000
Kenton.....	5,000	5,300	Xenia	19,792	16,000
Lima.....	7,750	7,062	All other points.....	50,129	55,933
Minster	6,000	6,700			
New Bremen.....	7,750	7,125	Totals.....	934,132	813,709
New Vienna .....	.....	5,500			

* Maxwell.

Table showing the total number of hogs cut at Cincinnati, each winter packing season, in forty-six years.*

Years.	Nos.	Years.	Nos.	Years.	Nos.	Years.	Nos.
1832-33	85,000	1844-45	196,000	1856-57	344,512	1867-68	366,831
1833-34	123,000	1845-46	205,000	1857-58	446,677	1868-69	365,555
1834-35	162,000	1846-47	250,000	1858-59	332,826	1869-70	337,330
1835-36	123,000	1847-48	475,000	1859-60	434,499	1870-71	481,568
1836-37	103,000	1848-49	410,000	1860-61	433,799	1871-72	530,301
1837-38	162,000	1849-50	393,000	1861-62	474,467	1872-73	626,305
1838-39	90,000	1850-51	334,000	1862-63	608,457	1873-74	581,253
1839-40	95,000	1851-52	352,000	1863-64	370,623	1874-75	560,164
1840-41	160,000	1852-53	361,000	1864-65	350,000	1875-76	563,359
1841-42	220,000	1853-54	421,000	1865-66	354,079	1876-77	523,576
1842-43	250,000	1854-55	355,786	1866-67	462,610	1877-78	632,302
1843-44	240,000	1855-56	405,396				

Table showing the aggregate annual receipts and shipments of the hog product, at Cincinnati, during ten pork years, each year ending October 31.*

Years.	Imports.			
	Hogs, head.	Pork, bbls.	Lard, lbs.	Meats, lbs.
1868-69	449,884	15,466	15,451,425	21,054,269
1869-70	486,487	14,102	8,647,480	24,791,596
1870-71	724,069	14,565	14,954,820	34,693,854
1871-72	996,216	31,277	14,675,970	41,340,576
1872-73	1,125,380	9,284	17,589,825	45,337,236
1873-74	1,113,331	7,279	16,921,080	35,063,598
1874-75	911,478	9,650	12,151,500	26,493,613
1875-76	882,618	5,924	13,680,811	25,789,708
1876-77	950,091	4,066	8,649,842	20,275,625
1877-78	1,069,146	3,189	9,435,791	18,617,937

Years.	Exports.			
	Hogs, head.	Pork, bbls.	Lard, lbs.	Meats, lbs.
1868-69	76,939	71,055	36,253,380	66,309,106
1869-70	38,649	71,858	22,922,880	68,783,744
1870-71	87,463	69,547	40,614,090	95,843,823
1871-72	170,124	109,279	43,307,010	120,847,895
1872-73	267,399	47,494	45,279,630	136,765,300
1873-74	396,803	46,357	40,936,125	124,342,241
1874-75	150,428	55,263	34,767,334	98,129,018
1875-76	185,621	54,892	34,927,861	97,649,782
1876-77	247,005	59,373	33,907,783	90,707,938
1877-78	231,929	67,611	43,658,859	93,447,945

* Maxwell.

COMPARATIVE TABLE BY STATES.

The following table exhibits, by States, for the seasons of 1877-78 and 1878-79, respectively, the number of hogs packed between November 1st and March 1st, the average gross and net weight, average yield per head of all kinds, total product of all kinds, the average price paid per hundred pounds gross and net, the aggregate cost, together with the grand aggregate and general averages of the year. This table has been prepared from the reports of the Cincinnati Price Current for 1877-78 and 1878-79, and from the reports of the Superintendent of the Cincinnati Merchants' Exchange for previous years, the gross averages for the past two years having been reached by the usual allowance of twenty per cent. as the difference between the gross and net averages.—*Married.*

States.	No. of hogs.		Weight.		Lard.		Price.			
	1877-78.	1878-79.	Average gross weight.	Average net weight.	Average yield per head of all kinds of lard.	Total product of lard, lbs.	Average price per 100 lbs. gross.	Average price per 100 lbs. net.	1877-78.	1878-79.
Ohio	924,126	813,709	272.66	218.15	36.49	36,433,043	\$4.12	\$5.78	\$10,767,520	\$12,778,960
Indiana	9,714,748	1,005,819	272.66	218.15	36.49	107,403,411	4.00	5.93	31,787,339	30,813,167
Iowa	496,065	530,908	272.66	218.15	36.49	17,074,564	3.95	5.61	5,226,967	7,419,140
Kansas	41,470	31,775	272.66	218.15	36.49	1,150,946	4.49	5.88	4,469,391	5,839,740
Kentucky	318,001	255,962	272.66	218.15	36.49	11,041,100	4.49	5.88	4,469,391	5,839,740
Michigan	199,095	189,608	272.66	218.15	36.49	4,436,076	3.49	5.36	1,303,759	1,882,441
Minnesota	285,700	94,835	272.66	218.15	36.49	1,150,946	3.49	5.36	1,303,759	1,882,441
Missouri	994,614	444,609	272.66	218.15	36.49	21,444,196	3.49	5.36	1,303,759	1,882,441
Nebraska	66,497	50,770	272.66	218.15	36.49	1,150,946	3.49	5.36	1,303,759	1,882,441
Tennessee	14,000	10,847	272.66	218.15	36.49	1,150,946	3.49	5.36	1,303,759	1,882,441
W. Virginia	13,000	10,000	272.66	218.15	36.49	1,150,946	3.49	5.36	1,303,759	1,882,441
Pittsburgh, Pa.	3,000	2,000	272.66	218.15	36.49	1,150,946	3.49	5.36	1,303,759	1,882,441
Atlanta, Ga.	8,505,446	5,101,306	272.66	218.15	36.49	172,677,690	4.25	5.72	343,479	355,690
Totals	6,505,446	5,101,306	272.66	218.15	36.49	851,192,500	\$3.99	\$4.99	\$73,308,919	\$79,040,638
Grand Totals	6,505,446	5,101,306	272.66	218.15	36.49	851,192,500	\$3.99	\$4.99	\$73,308,919	\$79,040,638
1877-78	6,505,446	5,101,306	272.66	218.15	36.49	851,192,500	\$3.99	\$4.99	\$73,308,919	\$79,040,638
1878-79	5,101,306	6,505,446	272.66	218.15	36.49	511,403,553	7.06	7.18	70,040,436	73,308,919
1879-80	4,850,199	4,850,199	272.66	218.15	36.49	134,403,553	6.65	6.65	66,500,000	66,500,000
1880-81	5,517,184	5,517,184	272.66	218.15	36.49	151,403,553	4.26	4.26	63,370,339	63,370,339
1881-82	5,263,910	5,263,910	272.66	218.15	36.49	144,403,553	3.78	3.78	55,418,711	55,418,711
1882-83	5,454,004	5,454,004	272.66	218.15	36.49	144,403,553	4.12	4.12	55,418,711	55,418,711
1883-84	5,702,401	5,702,401	272.66	218.15	36.49	144,403,553	6.54	6.54	45,518,128	45,518,128
1884-85	5,622,404	5,622,404	272.66	218.15	36.49	144,403,553	6.54	6.54	45,518,128	45,518,128

COMPARATIVE TABLES, SHOWING THE AVERAGE ANNUAL QUOTATIONS FOR WHEAT, CORN, OATS, HAY, FLOUR, ETC., ETC., FOR A SERIES OF YEARS.*

Table showing the average annual price of No. 1 red winter wheat, for seventeen years; of No. 2 in 1872-73 and 1873-74, and of the whole range, by sample, from 1874-75 to 1877-78, inclusive :

1855-56 \$1 27	1861-62.....\$0 86	1867-68.....\$2 31.25	1873-74, No. 2 \$1 37.9
1856-57 1 18	1862-63.... 1 04	1868-69..... 1 57	1874-75..... 1 16 6
1857-58 77	1863-64.... 1 41.5	1869-70..... 1 14.83	1875-76..... 1 10.17
1858-59 1 15	1864-65.... 1 78.5	1870-71..... 1 27.37	1876-77..... 1 41 34
1859-60 1 17	1865-66.... 2 27	1871-72..... 1 57.7	1877-78..... 1 11.2
1860-61 93	1866-67.... 2 29	1872-73, No. 2 1 56.3	

Table showing the average annual quotations for prime mixed ear corn, at Cincinnati, for twenty-three years :

1855-56.... \$0 42	1861-62.... \$0 31	1867-68..... \$0 92.2	1873-74..... \$0 60.05
1856-57.... 59	1862-63.... 53.4	1868-69..... 73½	1874-75..... 72 52
1857-58.... 42	1863-64.... 1 03½	1869-70..... 83½	1875-76..... 51.62
1858-59.... 72	1864-65.... 77½	1870-71..... 56	1876-77..... 46
1859-60.... 50	1865-66..... 54½	1871-72..... 49	1877-78..... 42.53
1860-61.... 34	1866-67.... 79½	1872-73..... 42.6	

Table showing the average annual quotations for No. 1 mixed oats, at Cincinnati, from 1855-56 to 1871-72, inclusive, and for No. 2 mixed from 1872-73 to 1877-78, inclusive :

1855-56..... 29½c	1861-62..... 30c	1867-68..... 60½c	1873-74, No. 2.... 48.2c
1856-57..... 46	1862-63..... 58½	1868-69..... 63½	1874-75, No. 2.... 59
1857-58..... 36	1863-64..... 78½	1869-70..... 54½	1875-76, No. 2.... 58
1858-59..... 57	1864-65..... 52½	1870-71..... 46	1876-77, No. 2.... 37.82
1859-60..... 43	1865-66..... 42	1871-72..... 37 5	1877-78, No. 2.... 28.66
1860-61..... 26½	1866-67..... 57	1872-73, No. 2... 36.1	

Table showing the average prices of prime timothy hay, at Cincinnati, loose pressed, per ton, for twenty-three years :

1855-56... \$14 71	1861-62..... \$11 85	1867-68..... \$14 80	1873-74 \$17 16.3
1856-57... 21 00	1862-63..... 16 34	1868-69..... 16 42	1874-75.... 20 98 1
1857-58... 13 46	1863-64..... 27 16	1869-70..... 17 43.7	1875-76.... 17 66 6
1858-59... 15 38	1864-65..... 26 00	1870-71..... 18 45	1876-77.... 11 67
1859-60... 17 73	1865-66..... 12 63	1871-72..... 20 78 8	1877-78.... 9 86
1860-61... 12 62	1866-67..... 19 76.5	1872-73..... 22 18.3	

Table showing the average annual prices of "superfine" flour for twenty-two years :

1856-57.... \$5 77	1862-63..... \$5 03	1868-69..... \$5 08.5	1873-74 \$5 06.2
1857-58.... 4 00	1863-64..... 6 39	1869-70..... 4 62	1874-75..... 4 41.7
1858-59.... 5 33	1864-65..... 7 67	1870-71..... 5 00	1875-76..... 3 90
1859-60.... 4 60	1865-66..... 7 32	1871-72..... 6 06	1876-77..... 5 47
1860-61.... 4 45	1866-67..... 9 45	1872-73..... 5 56 5	1877-78..... 3 90.9
1861-62.... 4 08	1867-68..... 9 18		

* Maxwell.

Table showing the average annual quotations of prime beef cattle, per cental gross, at Cincinnati, from 1855-56 to 1872-73, and on fair to medium cattle, from 1873-74 to 1877-78, inclusive:

1855-56..... \$7 73	1861-62..... \$3 24	1867-68..... \$7 27	1873-74..... \$3 90
1856-57..... 4 57	1862-63..... 3 96	1868-69..... 5 62.5	1874-75..... 4 30.7
1857-58..... 3 78	1863-64..... 5 73	1869-70..... 5 85	1875-76..... 3 95.6
1858-59..... 4 28	1864-65..... 7 45	1870-71..... 5 05.2	1876-77..... 3 50.8
1859-60..... 3 90	1865-66..... 7 55	1871-72..... 4 73.5	1877-78..... 3 03.6
1860-61..... 3 30	1866-67..... 7 27.5	1872-73..... 4 99.15	

Table showing the average annual quotations for prime New Orleans sugar, at Cincinnati, from 1855-56 to 1861-62, and for the years 1872-73 to 1877-78, inclusive, and for Porto Rico, from 1862-63 to 1871-72, inclusive:

1855-56..... 8.6c	1861-62..... 9.6c	1867-68..... 14c	1873-74..... 9.77c
1856-57..... 11.16	1862-63..... 12.2	1868-69..... 13.87	1874-75..... 9.06
1857-58..... 8 25	1863-64..... 18	1869-70..... 13	1875-76..... 8.9
1858-59..... 6 07	1864-65..... 20	1870-71..... 11.38	1876-77..... 10
1859-60..... 8	1865-66..... 16 12	1871-72..... 10.5	1877-78..... 8.4
1860-61..... 6.8	1866-67..... 14.75	1872-73..... 10.6	

Table showing the average annual quotations at Cincinnati, for prime New Orleans molasses, per gallon, for twenty-three years:

1855-56..... \$0 44	1861-62..... \$0 44	1867-68..... \$0 95	1873-74..... \$0 70.14
1856-57..... 67 3-5	1862-63..... 57 5-6	1868-69..... 80 1	1874-75..... 67.33
1857-58..... 36 4-5	1863-64..... 84 1	1869-70..... 80 1-7	1875-76..... 57.46
1858-59..... 37 4-5	1864-65..... 1 35 1	1870-71..... 68 1	1876-77..... 55.48
1859-60..... 43	1865-66..... 99	1871-72..... 61.9	1877-78..... 45.13
1860-61..... 33 1	1866-67..... 81	1872-73..... 72.22	

Table showing the comparative prices of all grades of coffee at Cincinnati, at the close of August, in five years:

Grades.	1874.	1875.	1876.	1877.	1878.
Rio, common, per pound ..	21 1/2 a 22c	21 1/2 a 22c	18 1/2 a 19c	19 a 19 1/2c	14 a 15c
Rio, good, " ..	23 a 23 1/2	23 a 23 1/2	20 a 21	20 1/2 a 20 1/2	16 1/2 a 17
Rio, prime, " ..	24 a 24 1/2	24 1/2 a 24 1/2	21 a 21 1/2	21 1/2 a 21 1/2	17 1/2 a 18
Rio, choice, " ..	25 a 25 1/2	25 a 25 1/2	22 a 23	22 1/2 a 23 1/2	18 1/2 a 19
Rio, fancy, " ..	26 a 27	25 1/2 a 26	23	24 1/2 a 25 1/2	20 a 22
Javagovernment " ..	32 a 35	33 1/2 a 36	27 a 30	25 a 33	24 a 28
Laguayra " ..	23 a 25	24 1/2 a 26 1/2	22 a 23	22 a 24	17 a 18

Table showing the average annual quotations for prime Rio coffee at Cincinnati, for twenty-three years:

1855-56..... 12 5c	1861-62..... 20 c	1867-68..... 25.25c	1873-74..... 27.49c
1856-57..... 11.8	1862-63..... 30 4	1868-69..... 24 6	1874-75..... 23.07
1857-58..... 11.6	1863-64..... 40	1869-70..... 24 62	1875-76..... 23 12
1858-59..... 12 1	1864-65..... 34 25	1870-71..... 19 25	1876-77..... 22.19
1859-60..... 12.67	1865-66..... 30 66	1871-72..... 23 66	1877-78..... 20
1860-61..... 14.57	1866-67..... 28 75	1872-73..... 23.64	

Table showing the average price of choice Central Ohio butter at Cincinnati, for twenty-one years :

1857-58.....	\$0 15	1864-65.....	\$0 35	1871-72.....	\$0 20.04
1858-59.....	19	1865-66.....	36.33	1872-73.....	23.2
1859-60.....	14.33	1866-67.....	26.5	1873-74.....	27
1860-61.....	13.16	1867-68.....	36.5	1874-75.....	25.33
1861-62.....	12.5	1868-69.....	32.87	1875-76.....	23.16
1862-63.....	11.5	1869-70.....	28.33	1876-77.....	18.68
1863-64.....	29	1870-71.....	24.62	1877-78.....	17.8

The following were the average annual quotations for cheese, during the past twenty-three years—the last seven for factory, previously for Western Reserve :

1855-56.....	\$0 9.7	1861-62.....	\$0 6.3	1867-68.....	\$0 14.2	1873-74.....	\$0 14.7
1856-57.....	10.1	1862-63.....	10.4	1868-69.....	16.5	1874-75.....	14
1857-58.....	8.1	1863-64.....	14	1869-70.....	17	1875-76.....	11.4
1858-59.....	8.2	1864-65.....	19.7	1870-71.....	13.7	1876-77.....	12.2
1859-60.....	8.5	1865-66.....	19.3	1871-72.....	14.5	1877-78.....	10.9
1860-61.....	7.8	1866-67.....	11.7	1872-73.....	14.5		

LABOR STATISTICS OF CINCINNATI.—*Marshall.*

CLASSIFIED AND COMPARATIVE STATEMENT OF THE NUMBER OF HANDS EMPLOYED IN MANUFACTURING INDUSTRY IN CINCINNATI, FOR THE YEARS 1840, 1850, 1860, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, AND 1877.

Classification.	1840.	1850.	1860.	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.
Iron.....	1,250	6,075	3,835	10,029	10,723	10,786	10,237	9,146	8,713	8,300	7,341	7,589
Other metals.....	466	921	770	1,736	1,809	1,829	1,573	2,144	2,147	2,534	2,405	2,564
Wood.....	1,436	3,798	4,342	7,847	7,597	8,091	8,294	7,611	7,977	8,024	5,788	8,686
Leather.....	883	2,472	2,283	5,312	4,647	5,067	5,209	4,601	4,929	5,342	5,491	5,553
Food.....	1,567	3,982	787	1,667	2,334	1,363	2,621	2,610	4,957	4,535	4,631	4,866
Soap, candles, and oils.....	142	750	869	1,217	1,122	936	1,011	948	3,043	1,057	1,135	1,071
Clothing.....	1,217	3,194	10,440	13,019	12,363	12,770	14,503	13,925	15,196	15,622	15,198	16,904
Liquors.....	110	963	632	2,428	2,301	1,888	1,470	1,632	1,835	1,816	1,772	1,841
Cotton, wool, hemp, etc.....	359	890	626	1,226	1,035	852	898	885	832	344	1,065	1,272
Drugs, chemicals, etc.....	114	391	418	697	735	503	602	274	550	591	611	624
Stone and earth.....	301	841	950	2,273	2,209	1,511	1,568	1,393	2,199	2,181	2,075	2,925
Carriages, cars, etc.....	67	496	739	1,151	1,175	1,170	1,265	1,207	1,335	1,369	1,466	1,608
Paper, etc.....	512	1,073	229	535	452	452	432	224	622	901	961	999
Book-binding and blank books.....	.....	.....	101	498	424	372	353	319	635	620	599	519
Printing and publishing.....	.....	.....	1,043	2,953	2,588	2,400	2,298	1,993	2,334	2,530	2,499	2,510
Tobacco.....	.....	.....	539	4,131	3,886	4,068	3,549	3,177	3,260	3,201	3,310	3,409
Fine arts.....	139	253	159	278	250	266	144	263	363	267	334	340
Miscellaneous.....	462	2,299	2,348	2,337	4,177	2,919	2,018	2,638	1,990	2,104	2,211	2,421
Totals.....	9,040	28,527	30,265	59,354	59,897	58,443	58,508	55,015	59,999	62,218	60,723	64,769

ARTIFICIAL FISH BREEDING IN OHIO.

BY EMERY D. POTTER,

Superintendent of Ohio State Fish Hatchery.

1853.

Dr. Theodatus Garlick, of Cleveland, fecundated and successfully hatched a large number of trout spawn (*Salmo fontinalis*) in a hatchery near Cleveland, in a small stream putting into the Cuyahoga river. This was, probably, the first experiment in artificial fish hatching on this continent. The fry was secured in two ponds, formed by dams across the stream, keeping the larger fish from the young fry. They grew rapidly here for two years, when a flood came, washed his dam away, and carried all his fish into the Cuyahoga, and very few of them were ever seen afterwards. This ended the doctor's experiments.

1873.

John Hoyt, of Castalia, Erie county, procured and hatched at Castalia Spring, two thousand eastern salmon eggs (*Salmo salar*), and set them free in the Castalia Spring stream, which puts into Sandusky Bay. He also, the same year, hatched quite a large number of brook trout (*Salmo fontinalis*), which were set free in the same stream. The brook trout have multiplied in the stream, until it has become the best stocked trout stream probably in America, and being in the hands of private individuals, who keep good watch over it, it is likely to remain so. The salmon made their way into Lake Erie, where they are now occasionally caught, weighing from three to four pounds.

In 1873 the General Assembly made the first appropriation looking towards the project of artificial fish breeding, and this being but \$1,000, no progress was made in the enterprise.

In March, 1875, an appropriation of \$10,000 was made, and active operations commenced in the succeeding fall, resulting in the construction and equipping of a hatchery, at Toledo, thirty by one hundred feet, capable of hatching twenty millions of white-fish. The breeding of fish here has been exclusively confined to the white-fish (*Coregonus albus*) of the lakes, and three varieties of the salmon, viz.: The Eastern salmon (*Salmo salar*), the California salmon (*Salmo quinnat*), and the Land-locked salmon (*Salmo sebago*).

Herewith is appended, in a condensed form, a history of the operations at the State Hatchery up to January 1, 1879.

There has been transferred to Ohio streams, by the United States Fish Commission, of

SHAD.

July 3, 1872.	In the Cuyahoga at Kent—"a few."	
June 24, 1873.	In Ashtabula	50,000
June 25, 1874.	Grand River, Lake county	60,000
June 26, 1874	Sandusky River, at Fremont	60,000
July 9, 1874.	Buckinghamela River, at Bellefontaine	75,000
July 18, 1874.	Black River, at Elyria	65,000
July 18, 1874.	Huron River, at Monroeville	65,000
June 15, 1875.	Scioto River, at Columbus	75,000
June 23, 1875.	Muskingum River, at Bayard.....	100,000
June 23, 1875.	Muskingum River, at Zanesville.....	50,700
Total number of shad deposited		590,700

The United States Fish Commission has planted in various streams in the State the

CALIFORNIA SALMON (*Salmo gairdneri*).

Dec. 30, 1873.	In the Muskingum River, at Millbrook	20,000
Jan. 13, 1874.	Sandusky River, at Bucyrus.....	12,000
Jan. 13, 1874.	Grand River, at Eagleville.....	10,000
Dec. 9, 1874.	Huron River, at Monroeville	10,000
Dec. 8, 1875.	Auglaize River, at Wapakoneta	45,000
Dec. 8, 1875.	Little Miami, at Sidney	105,000
Total transferred by U. S. Fish Commission.....		202,000
Mar. 25, 1877.	Received from Northville, Michigan.....	30,000
Mar. 25, 1878.	Hatched at hatchery in Toledo.....	220,000
And planted from Toledo hatchery :		
Mar. 25, 1877.	Deposited at Elmore, in Portage River	15,000
Mar. 25, 1877.	Maumee Rapids, near Waterville.....	15,000
Dec. 10, 1877.	Walhonding River.....	30,000
Dec. 10, 1877.	Muskingum	15,000
Feb. —, 1878.	Whetstone, Columbus.....	20,000
Feb. —, 1878.	Tuscarawas	30,000
Dec. 25, 1877.	Put-in-Bay Islands.....	40,000
Dec. 25, 1877.	Castalia Spring, Erie Co	10,000
Dec. 25, 1878.	Maumee Rapids, twelve miles above Toledo.....	30,000
Dec. 25, 1878.	Huron River, at Huron.....	15,000
Dec. 25, 1878.	Maumee River, at Defiance.....	30,000
Total California salmon (including those planted by U. S. Fish Com'n.		452,000

EASTERN SALMON (*Salmo salar*.)LAND-LOCKED SALMON (*Salmo sebago*).

1876. Eastern and Land-locked salmon, hatched at Toledo and planted together	68,000
Planted at Put-in-Bay, Lake Erie.....	40,000
Maumee Rapids.....	18,000
Sandusky River, at Fremont	10,000
Total	68,000

LAND-LOCKED SALMON.

1878. Hatched at Toledo, and planted in Maumee River.....	12,000
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WHITE-FISH (*Coregonus albus*).

1876. Hatched at Toledo, Cleveland, and Castalia	1,490,000
1876. Received from U. S. Fish Commission, hatched at Northville, Mich	1,000,000
1877. Hatched at Toledo.....	6,000,000
1878. Hatched at Toledo.....	12,100,000
Planted as follows:	
1876. Lake Erie, near Turtle Island	2,480,000
1876. Clear Lake, Summit county	10,000
1877. In Lake Erie, near Turtle Island.....	3,500,000
1877. In Sandusky Bay	2,500,000
1878. In Lake Erie, near the mouth of Crane Creek	6,000,000
1878. Put-in-Bay Islands, Lake Erie	6,000,000
1878. In Havana and Mifflin Lakes, Ashland county, 50,000 each.....	100,000
Total white-fish planted to January 1, 1879	20,590,000

Of the shad set free in our waters, it is said a few have been taken in the Scioto at Columbus. Sufficient time has elapsed since the first deposit in 1872 and 1873 to test the practicability of their acclimatization, and since the experiments have been barren of results, it seems that any further attempt to breed shad in waters inaccessible to the sea would be useless.

It is different with the salmon. Of those transferred to the waters tributary to Lake Erie, many have been taken, showing a fair development into the perfect fish. The salmon will undoubtedly become a fixed denizen of Lake Erie, multiplying in abundance, and although specimens of the three varieties introduced have been taken, sufficient time has not elapsed since their first introduction, in 1876, to develop the spawners. One or two more years, it is believed, will bring them into their spawning grounds, the streams in which they have been set free, especially the streams entering Lake Erie. Of the 105,000 California salmon deposited in the Little Miami at Sidney, in December, 1875,

nothing has been heard. Following their instincts, they are now somewhere in the lower Mississippi, seeking for the ocean, preparatory to a return sooner or later, to surprise the good people of the Miami Valley with a salmon breakfast.

It is not yet time to expect anything from those placed in the Walhonding, Muskingum, Tuscarawas, and Scioto, or Whetstone, as they have had scarcely a year's residence there; yet they are, probably, following the example of their brethren of the Miami, heading down stream toward the Gulf of Mexico.

It has been thought, by some of our old fishermen, that the sea-going salmon, transferred to the streams tributary to Lake Erie, would, in search for the ocean, pass over Niagara Falls, and we should hear no more from them. The prevailing opinion is, however, that they will remain in the deep waters of the lake until their full development into mature fish, and from thence return to the place of their original deposit to deliver their spawn. A year or two more will decide this question.

Of the white-fish no uncertainty exists. Their multiplication by artificial means in the hatching-house, is reduced to the same certainty that the farmer feels in the increase of his sheep, his hogs, his cattle, and his poultry. The water of Lake Erie is his native element and breeding ground. No acclimatization enters into the question of his reproduction. But they have many enemies; not that they devour the fish when hatched—an army of camp followers attend them to their spawning grounds to fatten upon the new laid egg—the sturgeon, an innumerable family of the sucker tribe, catfish, dog-fish, eel pout, sauger, lizzards, and tons of herring swarm upon the spawning grounds of the white-fish, and almost total destruction of their eggs ensue. A five pound white-fish will deposit in a season from fifteen to twenty thousand eggs, and it has been estimated by experts that less than one-eighth of these ever mature into fish when left to their natural course. By artificial spawning, over eighty per cent. of the eggs are fecundated and hatched in the breeding-house.

There is no great danger of their loss when once placed in the lake. They are placed in the deep water; they at once make their way to the lower end of Lake Erie into the deepest water, where there are few predacious fishes; and where they find in the larvæ, the mollusks, and crustacæ that abound in the deep water, plenty of the food they like, and where they remain and fatten till they are ready to return to the shoals and reefs in the upper end of the lake to deposit their spawn.

With the present force of fishermen and their present system of fishing, without some effort to replenish, the white-fish will become extinct in the great lakes; and it well becomes the State to farm this great source of food supply. White-fish, for the last season, have been sold at the

fishing-grounds along the lake shore in Ohio, at an average of three cents a pound, but little over the expense of handling them. When this fish is admitted to be the most delicate and wholesome fish found in any of our waters, at the price named above, they must ultimately become a staple article of food for our people. It is healthy and nutritious, and may be produced much cheaper than pork and beef. Fish cultivation, on a scale commensurate with the breeding-grounds, can scarcely be prosecuted by individuals, and it could hardly be expected when the results are shared by the people of the State at large.

There is now scarcely a State in the Union, and scarcely a foreign state or kingdom, that has not taken this matter of fish breeding in hand, prosecuting it successfully in their waters, with such fishes as are adapted to the climate. The reports from all the States engaged in it for the last year are full of encouragement, showing beyond a doubt that much good has resulted from the outlay of money thus invested.

It can not be expected that in this paper even a synopsis can be given of the numerous reports received. It is safe to say that they show success in every instance. Our climate is various, stretching from Maine to Texas, and each section is adapted to the growth of different fishes; but to such perfection has the art of fish culture been brought, that each locality has succeeded in largely increasing the native supply. The ocean has not been allowed to escape the scrutiny of the pisciculturist; and her depths have been sounded by his wand, and she has been compelled to yield up her dominion over the lordly denizens of her bosom, and the great deep has become man's farming ground. The experiments of Professor Baird at Gloucester, the last season, bid fair to give us good fishing on our own shores, and although we can not expect England to pay us back our money, it is believed we shall soon be able to do without her fishing grounds.

There are many portions of the State where the speckled trout may be successfully introduced, and arrangements have been made to secure a sufficient quantity of the spawn, the coming fall, to supply the streams adapted to their growth. They will not live in any but the clearest living water, and this may be found in the hilly regions of the State. They spawn at the same time as the white-fish, early in November, and the spawning force of the hatchery was insufficient, the last season, to attend to both. The propagation of the brook trout is not expected to largely increase the food supply of the State, but it affords a healthy recreation to the sedentary man, and a wholesome delicacy to the citizen who has the leisure and skill to capture them.

EELS.

The Fish Commissioners of Michigan have succeeded in introducing the silver eel (*Anquilla communis*) into many of the streams of that State. They are not propagated artificially, but are found early in June, in the upper waters of the Hudson River, N. Y., swarming in millions, where they may be taken and transported without difficulty to any distance.

There have been some objections made to the eel on account of his snake-like form, but it is a delicate fish, wholesome food, and may be propagated to almost any extent in the clear running waters of the State, and in ponds fed by springs.

There are now in the hatchery at Toledo from five to six millions of white-fish eggs, which will be hatched early in March, and deposited in Lake Erie as soon as it is clear of ice.

There are forty-five thousand salmon in the hatchery, hatched last November, from eggs brought from the United States breeding establishment at Redding, California.

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